APR 1 2014

COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

2013 RELIABILITY REPORT AS REQUIRED BY ADMINISTRATIVE CASE No. 2011-00450

<u>Due on or before April 1st. 2014</u>

CLARK ENERGY COOPERATIVE, INC WINCHESTER, KENTUCKY

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

والمساور		Anity Anitual Inchability Inchart
SECT	ION 1:	CONTACT INFORMATION
UTILITY NAME REPORT PREPARED BY E-MAIL ADDRESS OF PREPARER PHONE NUMBER OF PREPARER	1.1 1.2 1.3 1.4	Clark Energy Cooperative Scott Sidwell ssidwell@clarkenergy.com 859-901-9229
<u> </u>	SECTIO	ON 2: REPORT YEAR
CALENDAR YEAR OF REPORT	2.1	2013
SEC	CTION S	3: MAJOR EVENT DAYS
T _{MED}	3.1	13.66808714
FIRST DATE USED TO DETERMINE TMED	3.2	1/1/2008
LAST DATE USED TO DETERMINE T _{MED}	3.3	12/31/2012
NUMBER OF MED IN REPORT YEAR	3.4	2 Days
SECTION 4: SYSTE TOTAL CUSTOMERS25,718		ABILITY INFORMATION AND RESULTS m-Wide Information TOTAL CIRCUITS70
5 Year Average SAIDI 117.65 SAIFI 1.36	E	Reporting Year SAIDI 120.19 SAIFI 1.34
In	ncluding	MED
5 Year Average		Reporting Year
SAIDI 896.94 SAIFI 2.33		SAIDI 171.16 SAIFI 1.79
		may be attached as necessary ION MANAGEMENT PLAN REVIEW

KENTUCKY PUBLIC SERVICE COMMISSION

Clark Energy continues to have a strong ROW clearing program with increases in funding each of the last ten years. We are currently on a seven year clearing rotation with trimming of yard trees every two to three years. Our clearing cycle is followed up with herbicide the following year to two years in order to keep the ROW corridor clear of trees and brush to make service restoration easier and safer.	1
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SECTION 8: UTILITY COMMENTS

Although several of Clark Energy's individual overhead distribution circuits exceed the 5 year average of either SAIDA or SAIFI it can be argued that in most cases an individual large outage or a few large outages has put the circuit over the average but as a whole does not overly affect the system average for the year. 2013's indices were in line with both SAIDI and SAIFI's five year average with MED's and without.

Clark Energy's outages are reviewed daily, reported to our board monthly and most outage problems are corrected shortly after they are restored. Even if a particular circuit needs to have an overall ROW clearing we would still hot spot the areas until ROW crews can be assigned or the substation work bided out.

Since the last big ice storm of 2009 we have implemented 27 Conductor upgrade projects, installed 12 New three phase feeders, added two new substations and average approximately 400 poles per year changed out. This system hardening in our opinion is showing results during severe weather and ice accumulation.

Therefore in some cases we did not formulate a plan to individually correct problems since we address those issues as they arise.

DSC Poliabilit	y Report for 2013		ı			
F3C Kellabilit	y Keport for 2015					
Cultura dia a non	ne - Blevins Valley	<u> </u>				
$\overline{}$						
Substation Nur			<u> </u>	 		
	Blevins Valley Circui		<u> </u>			
	n - Town - Preston, K		ļ	ļ		
	Valley/Stulltown Roa	đ				
	County, Kentucky					
	on - Southern Bath Co	ounty		<u> </u>	<u> </u>	
	ngth 13.64 miles	<u> </u>				
	nt for this circuit - 11					
Date of last Cir	cuit Trim - Prior to 20	009				
Date	CAIDI	SAIDI	SAIFI			
2008	261	297	1.14			
2009	109	96	0.88			
2010	73	21	0.29			
2011	57	50	0.87			
2012	148	413	2.8			
2013	126	257	2.04			
5 yr average	130	175	1.20			
' <u>*</u>						
Outage date	CustomersAffected	CustomerHours	In Minutes	Duration in Minutes	Cause	Equipment/Material Failure
2/25/13	14	20	1200	86	300 Material or Equipment Fault/Failure	360 Fuse cutout (damaged, malfunction, maintenance)
7/1/13	1	4	214		410 Corrosion/Abrasion of Material/Equipment	510 Transformer fuse or breaker
10/6/13	105	172	10290		430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
3/5/13	39	76	4563	117	440 Trees With Ice/Snow	999 No Equipment failure
12/8/13	38	149	8968		440 Trees With ice/Snow	999 No Equipment failure
12/1/13	15	26	1530	102	601 Squirrel	999 No Equipment failure
			Total Minutes		Percentage of outage duration	
			SAIDI			
			26765	4.48%	300 Material or Equipment Fault/Failure	
<u> </u>					410 Corrosion/Abrasion of Material/Equipment	
				38.45%	430 Tree failure from overhang or dead tree without ice/snow	
				50.55%	440 Trees With Ice/Snow	
				5.72%	601 Squirrel	
			·	3.12/0	DOT 2 Admit CI	
	action plan for Blevi					
					tages to affect the SAIDi or SAIFi indices. Clark Energy plans to	
					at a problem exists with porcelain cutouts and is systematically	
replacing t	nem. We also contin	ue to add animal g	guards to all equipme	nt we install with some	e retrofitting when we work on equipment poles.	
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PSC Reliability	Report for 2013_					
Substation nam	e - Bowen					
Substation Num		·		-		
	Circuit 3 - North Fork	/Cane Creek			-	
	- Town - Bowen, Ky.	Conc Ciccx				-
		Dood				
	ork Road/Cane Creek	Road				
County - Powell						
	n - Southeastern Pow	ell County				
Total Circuit Ler						
	t for this circuit - 470					
Date of last Circ	cuit Trim - Prior to 200	09				<u> </u>
Date	CAIDI	5AIDI	SAIFI			
1						
2008	115	59	0.52			
2009	85	124			· · · · · · · · · · · · · · · · · · ·	···
	288	139				
2010			1.45			
2011	106	153				
2012	165	153	0.93			
2013	84	295				
5 yr average	119	95	0.78			
l i	_					
Outage date	CustomersAffected	CustomerHours	in Minutes	Duration in Minutes	Cause	Equipment/Material Failure
3/4/13	2	5	280	141	100 Construction	999 No Equipment failure
1/29/13	3	30	1800	26	110 Maintenance	999 No Equipment failure
9/11/13	20		0	86	110 Maintenance	999 No Equipment failure
1/2/13	<u>1</u>	12	720	77	340 Overload	999 No Equipment failure
3/21/13	4		0	99	340 Overload	999 No Equipment failure
3/22/13			ŏ	131	340 Overload	500 Transformer bad
	43	127	7620	221	400 Decay/Age of Material/Equipment	300 Line conductor
1/8/13		127			400 Decay/Age of Material/Equipment	360 Fuse cutout (damaged, malfunction, maintenance)
7/22/13	1		0	148		
6/3/13	2	33	1980	64	420 Tree Growth	999 No Equipment failure
6/13/13	1		0	227	420 Tree Growth	999 No Equipment failure
8/19/13	29		0	55	420 Tree Growth	999 No Equipment failure
4/12/13	96	1403	84180	142	430 Tree failure from overhang or dead tree without Ice/snow	999 No Equipment failure
4/19/13	1		0		430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
4/28/13	1		0	37	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/13/13	96		0	212	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/13/13	1		0	297	430 Tree failure from overhang or dead tree without Ice/snow	999 No Equipment failure
6/18/13	13		0	151	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/20/13	31		0	180	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/25/13	24		0	159	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
7/6/13	96		0 -	164	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
	2		0	275	430 Tree failure from overhang or dead tree without ice/snow	300 Line conductor
8/9/13			0	154	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
8/11/13	9					
9/10/13	1		0	76	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
12/22/13	427		0		430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
2/2/13	30	84	5055	208	440 Trees With Ice/Snow	999 No Equipment failure
1/9/13	43	82	4920	140	490 Maintenance, Other	320 Splice or dead end
6/28/13	1		0	82	490 Maintenance, Other	360 Fuse cutout (damaged, malfunction, maintenance)
3/18/13	8	259	15540	122	500 Lightning	999 No Equipment failure
3/18/13	2		0	98	500 Lightning	999 No Equipment failure
3/18/13	11		0	83	500 Lightning	999 No Equipment failure
-120120			ı	·	· · · · · · · · · · · · · · · · · · ·	<u> </u>

3/18/13	3		0	30	500 Lightning	999 No Equipment failure
5/21/13	1		0	55	500 Lightning	999 No Equipment failure
6/9/13	1		0	39	500 Lightning	999 No Equipment failure
6/9/13	1		0	41	500 Lightning	999 No Equipment failure
6/13/13	5		0	237	500 Lightning	999 No Equipment failure
6/17/13	429		0	27	500 Lightning	999 No Equipment failure
6/18/13	3		0	162	500 Lightning	999 No Equipment failure
3/26/13	1	2	127	127	601 Squirrel	999 No Equipment failure
6/4/13	1	1	36	35	610 Large Animal	999 No Equipment failure
10/18/13	1 1	1	52	52	611 Cattle Rubbing	999 No Equipment failure
3/12/13	21	37	2220	82	710 Motor Vehicle	999 No Equipment failure
5/13/13	3		0	89	710 Motor Vehicle	999 No Equipment failure
6/12/13	2		0	106	710 Motor Vehicle	999 No Equipment failure
11/4/13	2	2	140	70	740 Public Cuts Tree	999 No Equipment failure
3/19/13	1	16	960	32	999 Cause Linknown	999 No Equipment failure
6/6/13	9		0	90	999 Cause Unknown	999 No Equipment failure
10/26/13	2		0	28	999 Cause Unknown	490 Underground, other
20, 20, 25	259					100000000000000000000000000000000000000
						
——	 -		SAIDI			
			12563D	0.22%	100 Construction	
				1.43%	110 Maintenance	
				0.57%	340 Overload	
				6.07%	400 Decay/Age of Material/Equipment	
				1.58%	420 Tree Growth	
				67.01%	430 Tree failure from overhang or dead tree without ice/snow	
	 			4.02%	440 Trees With Ice/Snow	
				3.92%	490 Maintenance, Other	
				12.37%	500 Lightning	
				0.10%	601 Squirrel	
	 		_		610 Large Animal	
				0.04%	611 Cattle Rubbing	
				1.77%	710 Motor Vehicle	
				0.11%	740 Public Cuts Tree	
	 			0.76%	999 Cause Unknown	
-	 				 	
<u> </u>	 				 	
	action plan for Bowe					
					This station is in the eastern part of our system and is heavily	
wooded. (Clark Energy plans to i	nclude Bowen Subs	station in the 2015 R	JW substations due fo	or clearing.	
H					<u></u>	
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L	<u> </u>		L			

Bowen Substation - Cow Creek Road

PSC Reliability	y Report for 2013		-			
F SC KENADING	y Report for 2015					
Substation nam	ne - Rowen					
Substation Nun						
	Circuit 2 Cow Creek	_				
	n - Town - Bowen, Ky.					
	/Cow Creek Road				-	
County - Powel		II Courate	-			
	on - Southeastern Pow	ell County				
Total Circuit Le					**	
	nt for this circuit - 92					
Date of last Cir	cuit Trim - Prior to 20)9			· · · · · · · · · · · · · · · · · · ·	
				. –		
<u> </u>	64151	SAIDI	SAIFI			
Date	CAIDI	SAIDI	SAIFI		<u> </u>	
	470	244	1 74		<u> </u>	
2008	170	211	1.24			-
2009	130	153				
2010	143	82				
2011	177	552	3.12			
2012	71	126			<u> </u>	
2013	178	376				
5 yr average	138	225	1.56			
			4 441 4	D 1 1 4	F	Equipment/Material Failure
Outage date	CustomersAffected	CustomerHours	In Minutes	Duration in Minutes	Cause	Equipment/Material Fanore
				F1	510 Wind, Not Trees	999 No Equipment failure
1/30/13	1	1	51	51	400 Decay/Age of Material/Equipment	300 Line conductor
6/1/13	2	2	112	56	740 Public Cuts Tree	999 No Equipment failure
7/3/13	1	1	37	37		370 Recloser or sectionalizer (damaged, malfunction, maintenance)
7/22/13	73	294	17665	248	490 Maintenance, Other	
9/24/13	3	5	279	93	430 Tree failure from overhang or dead tree without ice/snow	
10/17/13	8	26	1536	191	430 Tree failure from overhang or dead tree without ice/snow	· · · · · · · · · · · · · · · · · · ·
11/7/13	3	8	459	153	430 Tree failure from overhang or dead tree without ice/snow	
12/8/13	63	122	7295	136	440 Trees With Ice/Snow	999 No Equipment failure
				<u> </u>		
			Total Minutes		Percentage of outage duration	
			SAIDI_			
			27434	0.19%	510 Wind, Not Trees	
				0.41%	400 Decay/Age of Material/Equipment	
			Ļ	0.13%	740 Public Cuts Tree	
				64.39%	490 Maintenance, Other	
				1.02%	430 Tree failure from overhang or dead tree without ice/snow	
				5.60%	430 Tree failure from overhang or dead tree without ice/snow	
_				1.67%	430 Tree failure from overhang or dead tree without ice/snow	<u>'</u>
				26.59%	440 Trees With Ice/5now	
Commodition			b Poad	·		
Corrective ac	tion plan for Bowen -	nall circuit with for	.x noou v members making it :	easy for a few large on	tages to affect the SAIDI or SAIFI indices. Clark Energy plans	
	ation - Circuit 2 is a sin				7-00	
to include bo	THE TOUSTON IN THE	2025 11011 30030		r		
						1 1
					<u> </u>	<u> </u>

DCC D-II-LIII	. Damant for 2012					
PSC Kellability	Report for 2013					
Substation nam						
Substation Nur						
	Circuit 2 Hwy 82-Sno					<u></u>
Circuit Location	- Town - Clay City, K	/				
Road - Hwy 15	- Lofty Heights - Hwy	82 - Snow Creek R	oad			
County - Powel	l County, Ky					
General location	n - Central Powell Co	unty, Kentucky				
	ngth 29.44 miles					
Customer coun	t for this circuit - 536					
	cuit Trim - 2011					
						· · · · · · · · · · · · · · · · · · ·
						
Date	CAIDI	SAIDI	SAIFI			
						
2008	170	211	1.24			
2009	130	153	1.1			
2010	143	82				
2010	143	552				
						
2012	71	126				
2013	178	376				
5 yr average	138	225	1.56			
Outage date	CustomersAffected	CustomerHours	In Minutes	Duration in Minutes	Cause	Equipment/Material Fallure
<u> </u>						
1/9/13	1	11	660	78	100 Construction	999 No Equipment failure
3/26/13	1_	0	0			999 No Equipment failure
3/26/13	3	0	0	159	100 Construction	999 No Equipment failure
3/6/13	1	1	37	37	440 Trees With Ice/Snow	999 No Equipment failure
3/14/13	1	1	62	62	300 Material or Equipment Fault/Failure	360 Fuse cutout (damaged, maifunction, maintenance)
4/12/13	1	2	133	133	110 Maintenance	600 Secondary or service conductor
4/14/13	1	1	53	53	600 Small Animal/Bird	999 No Equipment failure
6/13/13	22	1026	61560	371	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/26/13	460	0	0		430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
7/10/13	5	0	0	60	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
8/8/13	2	0	0		430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
7/14/13	366	161	9660	25	500 Lightning	999 No Equipment failure
8/31/13	2	0	0	48	500 Lightning	999 No Equipment failure
9/4/13	3	5	288		490 Maintenance, Other	999 No Equipment failure
9/9/13	- 4	4	252		100 Construction	999 No Equipment failure
9/13/13	1	1	71		999 Cause Unknown	999 No Equipment failure
10/22/13	2	181	10860	143	710 Motor Vehicle	999 No Equipment failure
		181	10860		710 Motor Vehicle	
11/16/13	458	11				999 No Equipment failure
12/22/13	5	11	630	126	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
						
					 	
			Total Minutes		Percentage of outage duration	
<u> </u>			84266			
					100 Construction	
				0.16%	110 Maintenance	
				0.07%	300 Material or Equipment Fault/Failure	
					440 Trees With Ice/Snow	
				73.05%	430 Tree failure from overhang or dead tree without ice/snow	
				0.34%	490 Maintenance, Other	

Clay City Sub - Circuit 2, Hwy 82 Snow Creek

		11.46%	500 Lightning
		0.06%	600 Small Animal/Bird
		12.89%	710 Motor Vehicle
		0.08%	999 Cause Unknown
			both SAIDI and SAIFI to be over the 5 year average. Clark
Energy will strive to keep outages as shor	t as possible while maintaining	a safe work enviormen	nt.
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ti t						
PSC Reliability	y Report for 2013					
<u> </u>					<u></u>	
Substation name - Clay City				<u> </u>	<u> </u>	
Substation Nun		<u> </u>	·			<u> </u>
Circuit Name -	Circuit 4 Hwy 11-Beed	hfork Road				
Circuit Location	- Town - Clay City, Ky	<i>.</i>				
Road - Skinner I	Branch/Beechfork/Po	mpii Road				
County - Powell	County, Ky					
General locatio	n - Central Powell Cot	inty, Kentucky				
	ngth 34.75 miles					
Customer coun	t for this circuit - 76S					
Date of last Circ	cuit Trim - 2011					
	<u></u>					
				-		· · · · · · · · · · · · · · · · · · ·
Date	CAIDI	SAIDI	SAIFI			·
00,0	CAID!	SAIDI				
2008	90	3B	0.42			
2009	111	26				
2010	65	8				
2010	135	367				
2011	133	198	1.56			
2012	127	198	4.62			
	108	127	1.01			
5 yr average	106	127	1.01			
<u></u>					<u></u>	
Dutage date	CustomersAffected	CustomerHours	in Minutes	Duration in Minutes	Cause	Equipment/Material Failure
2/22/22				450		1000 11 2 11 11 11 11 11 11 11 11 11 11 11 1
2/13/13	1	65		158	100 Construction	999 No Equipment failure
2/21/13	1	0		151	100 Construction	999 No Equipment failure
2/27/13	2	0		227	100 Construction	999 No Equipment failure
2/28/13	2	0	0	91	100 Construction	999 No Equipment failure
2/28/13	2	0		133	100 Construction	999 No Equipment failure
3/28/13	3	0			100 Construction	290 Poles and fixtures, other
4/5/13	5	. 0		138	100 Construction	999 No Equipment failure
4/5/13	6	0		77	100 Construction	999 No Equipment failure
4/8/13	3	0		64	100 Construction	999 No Equipment failure
9/16/13	4	0		54	100 Construction	999 No Equipment failure
9/17/13	4	0		98	100 Construction	999 No Equipment failure
9/25/13	3	. 0	0	100	100 Construction	999 No Equipment failure
11/11/13	-2	0		42	100 Construction	999 No Equipment failure
2/21/13	2	17	1020	75	110 Maintenance	999 No Equipment failure
3/15/13	17	0	0	15	110 Maintenance	300 Line conductor
3/29/13	3	0	0	181	110 Maintenance	999 No Equipment failure
5/31/13	2	0.	0	33	110 Maintenance	999 No Equipment failure
2/6/13	10	6	360	14	300 Material or Equipment Fault/Failure	310 Connector or clamp
3/4/13	4	0	0	67	300 Material or Equipment Fault/Failure	360 Fuse cutout (damaged, malfunction, maintenance)
7/7/13	2	1	60	40	340 Overload	999 No Equipment failure
5/30/13	2	7	420	201	400 Decay/Age of Material/Equipment	220 Anchor or guy
6/21/13	1	1	60	68	420 Tree Growth	999 No Equipment failure
3/25/13	2	313		66	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/10/13	58	0		87	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/13/13	46	0		149	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/18/13	58	0		97	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
7/29/13	1	- 0		63	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
8/13/13	7			151	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
0/12/12				131	220 Hee landle from Overhank of dead free Mithor ICS/SUOM	1535 Ido Edinbricut launic

12/10/13	3	6	360	60	490 Maintenance, Other	999 No Equipment failure
12/12/13	3	0	0	55	490 Maintenance, Other	999 No Equipment failure
9/21/13	1	1	60	51	500 Lightning	999 No Equipment failure
11/10/13	6	6	360	27	601 Squirrel	999 No Equipment failure
12/19/13	5	0	0	33	601 Squirrel	999 No Equipment failure
7/1/13	46	46	2760	135	710 Motor Vehicle	999 No Equipment failure
3/8/13	1	5	300	57	999 Cause Unknown	999 No Equipment failure
4/11/13	2	0	0	33	999 Cause Unknown	999 No Equipment failure
6/30/13	2	0	0	48	999 Cause Unknown	999 No Equipment failure
9/3/13	1	0	0	42	999 Cause Unknown	999 No Equipment failure
		-	Total Minutes	i	Percentage of outage duration	
			28440			Ţ
				13.71%	100 Construction	
				3.59%	110 Maintenance	
				1.27%	300 Material or Equipment Fault/Failure	
				0.21%	340 Overload	
				1.48%	400 Decay/Age of Material/Equipment	
				0.21%	420 Tree Growth	
				66.03%	430 Tree failure from overhang or dead tree without ice/snow	
				1.27%	490 Maintenance, Other	
				0.21%	500 Lightning	
				1.27%	601 Squirrel	
				9.70%	710 Motor Vehicle	
				1.05%	999 Cause Unknown	
	·			· · · · · · · · · · · · · · · · · · ·		
					change outs caused several of the planned outages for this	
					rridor continue to be a big contributor to outage numbers. Line	
inspection	will key on finding tre	es in the eage of t	the KOW that might fo	3II.		
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DSC Reliability	y Report for 2013				<u> </u>	
1 SC Reliability	y neport for 2023					
Substation nan	ne - Frenchburg					
Substation Nu						
	- Circuit 2 McCausey	Didee				
						
	n - Town - Frenchburg					
	/ McCausey Ridge Ro	ao				
	fee County, Ky					
	on - Central Menifee	Lounty, Eastern Ke	ntucky			
	ength 20.26 miles					
	nt for this circuit - 330			<u></u>	<u> </u>	
Date of last Cir	rcuit Trim - The whole	circuit was trimm	ed prior to 2009 but	yard trees are trimme	d on an as needed basis	
Date	CAIDI	SAIDI	SAIFI			
						<u> </u>
2008	38	4	0.11			<u> </u>
2009		23	0.26			
2010	70	169	2.33			<u> </u>
2011	65	19	0.29		<u> </u>	
2012	63	37	0.59			
2013	28	42	1.52			
5 yr average	65	50	0.72			
Outage date	CustomersAffected	CustomerHours	In Minutes	Duration in Minutes	Cause	Equipment/Material Failure
12/5/13	1	0.25	15	15	110 Maintenance	999 No Equipment failure
4/9/13	12	0.25 203.00	15 12180		430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
4/9/13	12	203.00	12180	32	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
4/9/13 4/10/13	12 79	203.00 0.00	12180 0	32 20	430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure 999 No Equipment failure
4/9/13 4/10/13 5/21/13	12 79 292	203.00 0.00 0.00	12180 0 0	32 20 50	430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure 999 No Equipment failure 999 No Equipment failure
4/9/13 4/10/13 5/21/13 10/23/13	12 79 292 43	203.00 0.00 0.00 0.00	12180 0 0 0	32 20 50 8	430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure 999 No Equipment failure 999 No Equipment failure 999 No Equipment failure
4/9/13 4/10/13 5/21/13 10/23/13 10/31/13	12 79 292 43 4	203.00 0.00 0.00 0.00 0.00	12180 0 0 0 0	32 20 50 8 97	430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
4/9/13 4/10/13 5/21/13 10/23/13 10/31/13 12/9/13	12 79 292 43 4 7	203.00 0.00 0.00 0.00 0.00 0.00	12180 0 0 0 0 0	32 20 50 8 97 66 42	430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
4/9/13 4/10/13 5/21/13 10/23/13 10/31/13 12/9/13 5/21/13 12/4/13	12 79 292 43 4 7	203.00 0.00 0.00 0.00 0.00 0.00 1.40	12180 0 0 0 0 0 0	32 20 50 8 97 66 42	430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 500 Lightning	999 No Equipment failure
4/9/13 4/10/13 5/21/13 10/23/13 10/31/13 12/9/13 5/21/13	12 79 292 43 4 7 2	203.00 0.00 0.00 0.00 0.00 0.00 1.40 0.27	12180 0 0 0 0 0 0 0 84 16	32 20 50 8 97 66 42 16	430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 500 Lightning 601 Squirrel	999 No Equipment failure
4/9/13 4/10/13 5/21/13 10/23/13 10/31/13 12/9/13 5/21/13 12/4/13	12 79 292 43 4 7 2	203.00 0.00 0.00 0.00 0.00 0.00 1.40 0.27	12180 0 0 0 0 0 0 0 84 16	32 20 50 8 97 66 42 16	430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 500 Lightning 601 Squirrel 790 Public, Other	999 No Equipment failure
4/9/13 4/10/13 5/21/13 10/23/13 10/31/13 12/9/13 5/21/13 12/4/13	12 79 292 43 4 7 2	203.00 0.00 0.00 0.00 0.00 0.00 1.40 0.27	12180 0 0 0 0 0 0 84 16 21	32 20 50 8 97 66 42 16	430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 500 Lightning 601 Squirrel	999 No Equipment failure
4/9/13 4/10/13 5/21/13 10/23/13 10/31/13 12/9/13 5/21/13 12/4/13	12 79 292 43 4 7 2	203.00 0.00 0.00 0.00 0.00 0.00 1.40 0.27	12180 0 0 0 0 0 0 84 16 21	32 20 50 8 97 66 42 16 21	430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 500 Lightning 601 Squirrel 790 Public, Other	999 No Equipment failure
4/9/13 4/10/13 5/21/13 10/23/13 10/31/13 12/9/13 5/21/13 12/4/13	12 79 292 43 4 7 2	203.00 0.00 0.00 0.00 0.00 0.00 1.40 0.27	12180 0 0 0 0 0 0 84 16 21	32 20 50 8 97 66 42 16 21	430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 500 Lightning 601 Squirrel 790 Public, Other Percentage of outage duration	999 No Equipment failure
4/9/13 4/10/13 5/21/13 10/23/13 10/31/13 12/9/13 5/21/13 12/4/13	12 79 292 43 4 7 2	203.00 0.00 0.00 0.00 0.00 0.00 1.40 0.27	12180 0 0 0 0 0 0 84 16 21	32 20 50 8 97 66 42 16 21	430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 500 Lightning 601 Squirrel 790 Public, Other Percentage of outage duration 110 Maintenance 430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
4/9/13 4/10/13 5/21/13 10/23/13 10/31/13 12/9/13 5/21/13 12/4/13	12 79 292 43 4 7 2	203.00 0.00 0.00 0.00 0.00 0.00 1.40 0.27	12180 0 0 0 0 0 0 84 16 21	32 20 50 8 97 66 42 16 21 0.12% 98.90% 0.68%	430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 500 Lightning 601 Squirrel 790 Public, Other Percentage of outage duration 110 Maintenance 430 Tree failure from overhang or dead tree without ice/snow 500 Lightning	999 No Equipment failure
4/9/13 4/10/13 5/21/13 10/23/13 10/31/13 12/9/13 5/21/13 12/4/13	12 79 292 43 4 7 2	203.00 0.00 0.00 0.00 0.00 0.00 1.40 0.27	12180 0 0 0 0 0 0 84 16 21	32 20 50 8 97 66 42 16 21 0.12% 98.90% 0.68% 0.13%	430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 500 Lightning 601 Squirrel 790 Public, Other Percentage of outage duration 110 Maintenance 430 Tree failure from overhang or dead tree without ice/snow 500 Lightning 601 Squirrel	999 No Equipment failure
4/9/13 4/10/13 5/21/13 10/23/13 10/31/13 12/9/13 5/21/13 12/4/13	12 79 292 43 4 7 2	203.00 0.00 0.00 0.00 0.00 0.00 1.40 0.27	12180 0 0 0 0 0 0 84 16 21	32 20 50 8 97 66 42 16 21 0.12% 98.90% 0.68%	430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow 500 Lightning 601 Squirrel 790 Public, Other Percentage of outage duration 110 Maintenance 430 Tree failure from overhang or dead tree without ice/snow 500 Lightning	999 No Equipment failure

Frenchburg Subsation - Circuit 2 - McCausey Ridge Road

					n here other than to look for danger trees on ou		
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DCC Dallabilla	. Danest for 2012					
PSC Reliabilit	y Report for 2013					ļ
-	ne - Frenchburg					<u> </u>
Substation Nur		<u> </u>			<u> </u>	
	Circuit 4 Hwy 1274/S					
	n - Town - Frenchburg					<u> </u>
	74/ Scranton Road/Zi	po Campgrounds				
County - Menif		<u></u>				
	n - Eastern Menifee (County, Eastern Ke	ntucky			<u> </u>
	ngth 70.35 miles					
	t for this circuit - 119					
Date of last Cir	cuit Trim - Prior to 20	09 but is part of th	e 2014 ROW plan			
Date	CAIDI	SAIDI	SAIFI			
2008	155	167	1.08			
2009	144	170	1.18			
2010	113	404	3.97			
2011	135	367	2.71			
2012	112	748	6.67			
2013	108	497	4.62			
5 yr average	132	371	3.12			
Outage date	CustomersAffected	CustomerHours	In Minutes	Duration in Minutes	Cause	Equipment/Material Fallure
3/14/13	5	256	15360	11	100 Construction	999 No Equipment failure
8/20/13	4	0	0	144	100 Construction	999 No Equipment failure
8/27/13	10	0	0	64	100 Construction	360 Fuse cutout (damaged, malfunction, maintenance)
9/4/13	14	0	0	149	100 Construction	999 No Equipment failure
10/9/13	9	0	0	71	100 Construction	999 No Equipment failure
10/16/13	33	0	0	63	100 Construction	999 No Equipment failure
10/21/13	5	0	0	128	100 Construction	999 No Equipment failure
10/29/13	20	0	0	82	100 Construction	999 No Equipment failure
12/4/13	13	0	0	178	100 Construction	999 No Equipment failure
12/4/13	10	0	0		100 Construction	999 No Equipment failure
12/13/13	13	0	0		100 Construction	999 No Equipment failure
2/6/13	2	121	7260		110 Maintenance	999 No Equipment failure
4/25/13	26	0	0	251	110 Maintenance	999 No Equipment failure
5/31/13	3	0	0		110 Maintenance	999 No Equipment failure
7/29/13		0	0		110 Maintenance	999 No Equipment failure
3/1/13	2	6	358	179	300 Material or Equipment Fault/Failure	500 Transformer bad
3/27/13	3	6	360		340 Overload	999 No Equipment failure
3/27/13	3	0	0		340 Overload	999 No Equipment failure
11/18/13	951	1436	86139		360 Other Equipment Installation/Design	320 Splice or dead end
7/15/13	1	4	240	76	400 Decay/Age of Material/Equipment	
7/16/13	1	0	0		400 Decay/Age of Material/Equipment 400 Decay/Age of Material/Equipment	350 Lightning arrester line
	1	0	0			350 Lightning arrester line
8/21/13 2/22/13	1	1	49	127 49	400 Decay/Age of Material/Equipment	360 Fuse cutout (damaged, malfunction, maintenance)
			88		410 Corrosion/Abrasion of Material/Equipment	520 Transformer arrester
6/12/13	1	1 2724			420 Tree Growth	999 No Equipment failure
1/1/13	2	3724	223440	126	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure

1/30/13	53	0	0	87	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
2/11/13	3	0	0	129	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
3/18/13	<u></u> 6	0	0	260	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
4/30/13	14	0	0	50	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
5/4/13	14	0	0	72	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
5/21/13	4	0	0	64	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/13/13	931	0	0	94	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/26/13	162	0	0	301	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/27/13	25	0	0	122	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
7/7/13	162	0	0	59	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
7/16/13	1	0	0	78	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
7/29/13	1	0	0	82	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
8/19/13	11	0	0	220	430 Tree failure from overhang or dead tree without ice/snow	
8/22/13	124	0	0	102	 	999 No Equipment failure
8/28/13	124	0	0	43	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
8/31/13	7	0	0	120	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
9/12/13	84	0	0	62	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
9/12/13	21	0	0	74	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
	85	0			430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
10/17/13	20		0	63	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
11/17/13	90	0	0	42	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
12/22/13	29		0	418	430 Tree failure from overhang or dead tree without ice/snow	330 Jumper
12/22/13	3	0	0	194	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
12/22/13		0	0	90	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
12/22/13	5	0	0	31	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
12/30/13	11	0	0	88	430 Tree fallure from overhang or dead tree without ice/snow	999 No Equipment failure
1/16/13	959	1751	105060	214	440 Trees With Ice/Snow	999 No Equipment failure
1/16/13	8	0	0	169	440 Trees With Ice/Snow	999 No Equipment failure
12/8/13	83	0	0	217	440 Trees With Ice/Snow	999 No Equipment failure
12/8/13	83	0	0	72	440 Trees With Ice/5now	999 No Equipment failure
12/8/13	11	0	0	84	440 Trees With Ice/Snow	999 No Equipment failure
12/8/13	14	0	0	100	440 Trees With Ice/Snow	999 No Equipment failure
4/23/13	162	857	51420	563	470 Borrower crew cuts tree	999 No Equipment failure
4/25/13	26	0	0	41	470 Borrower crew cuts tree	999 No Equipment failure
11/8/13	2	24	1440	193	490 Maintenance, Other	500 Transformer bad
12/20/13	4	0	0	189	490 Maintenance, Other	600 Secondary or service conductor
12/27/13	2	0	0	149	490 Maintenance, Other	690 Secondary and service, other
6/10/13	1	141	8460	223	500 Lightning	999 No Equipment failure
6/17/13	4	0	0	354	500 Lightning	999 No Equipment failure
6/26/13	7	0	0	317	500 Lightning	999 No Equipment failure
7/10/13	3	0	0	133	500 Lightning	999 No Equipment failure
7/22/13	2	0	0	56	500 Lightning	999 No Equipment failure
8/31/13	13	0	0	102	500 Lightning	999 No Equipment failure
8/31/13	5	0	0	154	500 Lightning	999 No Equipment failure
9/21/13	28	0	0	71	500 Lightning	999 No Equipment failure
5/10/13	84	152	9120	49	510 Wind, Not Trees	999 No Equipment failure
5/21/13	25	0	0	134	510 Wind, Not Trees	999 No Equipment failure
5/21/13	3	0	0	218	510 Wind, Not Trees	999 No Equipment failure
5/22/13	7	0	0	127	510 Wind, Not Trees	999 No Equipment failure
5/18/13	21	26	1554	74	601 Squirrel	999 No Equipment failure
6/12/13	24	24	1416	59	710 Motor Vehicle	999 No Equipment failure
3/14/13	14	18	1080	38	740 Public Cuts Tree	999 No Equipment failure

Frenchburg Substation - Hwy 1274 Scranton

6/8/13	4	0	0	136	740 Public Cuts Tree	999 No Equipment failure
5/16/13	25	95	5700	43	999 Cause Unknown	999 No Equipment failure
9/4/13	25	0	0	116	999 Cause Unknown	999 No Equipment failure
9/18/13	28	0	0	51	999 Cause Unknown	999 No Equipment failure
9/18/13	5	0	0	56	999 Cause Unknown	999 No Equipment failure
575-75-						
			Total Minutes		Percentage of outage duration	
			518544			
				2.96%	100 Construction	
				1.40%	110 Maintenance	
				0.05%	360 Other Equipment Installation/Design	
				0.05%	400 Decay/Age of Material/Equipment	
				0.01%	410 Corrosion/Abrasion of Material/Equipment	
				0.02%	420 Tree Growth	<u> </u>
				43.09%	430 Tree failure from overhang or dead tree without ice/snow	
				20.26%	440 Trees With Ice/Snow	
				9.92%	470 Borrower crew cuts tree	
				0.28%	490 Maintenance, Other	
				1.63%	500 Lightning	
	<u> </u>			1.76%	S10 Wind, Not Trees	
				0.30%	601 Squirrel	
				0.27%	710 Motor Vehicle	
				0.21%	740 Public Cuts Tree	
				1.10%	999 Cause Unknown	
	National Forest a	and is not easily ac surrounding Cave ged out must be re omation is being co	cessed due to dense f Run Lake. The right-of eplaced by hand or wit	orest and mountainou -ways are being cleare :h specialized equipme	on. This circuit runs through the Daniel Boone us terrain. Most of the metering points are ed as part of the 2014 ROW contract. Poles that ent such as dozers and tracked vehicles. circuit can be backfed during outages.	

PSC Reliability Report for 2013						
de la Contraction de la Contra						
Substation Number - F107						
Circuit Name - Circuit 1 Big Hardwic	cks Creek					
Circuit Location - Town - Clay City, K	خ					
Road - Hardwicks Creek/Happy Top	Road					
County - Powell County, Ky						
Total Circuit I enerth 39 85 miles	it County, Kentuci					
Customer count for this circuit - 504						
Date of last Circuit Trim - 2011						
Date CAID!	SAIDI	SAIFi				
		0.05				
2019	23					
2011						
	2					
Outage date CustomersAffected	CustomerHours	s In Minutes	Duration in Minutes	Ceuse	Equipment/Material Failure	
1/7/13	21	1260	114	ction	999 No Equipment failure	
	0	0	57		999 No Equipment failure	
	٥	٥	168	ction	999 No Equipment failure	
+	0		23	ction	999 No Equipment failure	
	٥	٥	115	ction	999 No Equipment failure	
	0	0	42	ction	999 No Equipment failure	
1	•	480	Ì	110 Maintenance	999 No Equipment failure	
10/25/13 2	٥	0	ì	110 Maintenance	999 No Equipment failure	
		2	1	300 Material or Equipment Fault/Failure	360 Fuse cutout (damaged, malfunction, maintenance)	
1/24/13	_	198	Ì	340 Overload	500 Transformer bad	
5/19/13	1 20	88	1	400 Decay/Age of Material/Equipment	520 Transformer arrester	
1	967	nort-i	Ì	430 Iree tailure from overhang of dead tree without ice/snow	999 No Equipment failure	
7/7/13			Ì	430 Tree failure from overhang of dead tree without ke/show	999 No Equipment Tailure	
-	ي د	192	Ì	430 Maintenance Other	999 No Equipment Taxure	
L			Ì	490 Maintenance Other	300 Fore Citize (demand malf. profes maintenance)	
-	8	5280	1	Smilehine	DOO No Couloman 6-11-12	
	0		1	Souththine	999 No Equipment failure	T
-	٥	0	Ì	S00 Lightning	900 No Foreignment failure	
8/21/13 6	٥	0	77	500 Lightning	999 No Equipment failure	
	•]	500 Lightning	999 No Equipment failure	ĺ
8/31/13 3	0	0		500 Lightning	999 No Equipment failure	
12/22/13 16	11	889	43	510 Wind, Not Trees	999 No Equipment failure	
10/8/13 4	3	160		600 Small Animal/Bird	999 No Equipment failure	
6/14/13 3	80	480		601 Squirrel	999 No Equipment failure	
12/22/13	0	0	53	7	999 No Equipment failure	
8/27/13	9	385	55	Cuts Tree	999 No Equipment failure	
1	6	540	88	Unknown	360 Fuse cutout (damaged, maifunction, maintenance)	
1	0	٥	98	Unknown	999 No Equipment failure	
10/4/13	٥	•	25		999 No Equipment failure	
		Total beingen		Description of a second		1
		24137				
			\$22%	10 Construction		
			1,99%	110 Maintenance		ľ
			0.30%	300 Material or Equipment Fault/Failure		
			0.82%	340 Overload		
Corrective action plan for Hardwick	s Creek Substation	1- Croult 3 - Big	0.28%	400 Decay/Age of Material/Equipment		
Hardwicks Creek Road: Only the SAI	FI Indices were ele	evated on this	58.68%	430 Tree failure from overhang or dead tree without ice/snow		
circuit. With almost 59 percent of the outage times coming from trees	he outage times co	oming from trees	1.49%	490 Maintenance, Other		
out of right-of-way the only way to	reduce them is th	rough attentiveness	21.88%	500 Lightning		
while preforming tine parrol.			285%	510 Wind, Not Trees		
			0.66%	600 Small Animal/Bird		
			1.59%	240 Biblio Control		
		•	3.24%	Odd Care fire		

		ſ			··	, -
PSC Kellabilit	y Report for 2013					
Substation nan						
Substation Nur	mber - E66					
Circuit Name -	Circuit 3 Stepstone -	Mt. View subdivisi	on			· -
Circuit Location	n - Town - Mt. Sterling	g, Ky.				
Road - Hinkston	n Pike- Hwy 60- Steps	tone Road - Howa	rds Mill Road			
County - Monte	gomery County, Ky	,			-	
	on - East Central Kenti	ıckv			· · · · · · · · · · · · · · · · · · ·	· · · - · · · · · · · · · · · · · · · ·
	ngth 19.96 miles	,				
	nt for this circuit - 159	l	-		-	
	cuit Trim - 2013					
Date of last cit	Care 171111 - 2013					
Data	CAIDI	SAIDI	SAIFI			
Date	CAIDI	SAIDI	SAIFI			
J						
2008	107					
2009	53					
2010	175					
2011	117		1.95			
2012	85				-	
2013	108	256	2.38			
5 yr average	107	180	1.69			
			-		· -	······································
Outage date	CustomersAffected	CustomerHours	In Minutes	Duration In Minutes	Cause	Equipment/Material Failure
						equipment material randic
8/2/13	2	8	480	91	100 Construction	999 No Equipment failure
8/26/13	2	0	0	141	100 Construction	999 No Equipment failure
7/22/13	120	147	8820	71		
9/5/13	3	0	0	98	490 Maintenance, Other	370 Recloser or sectionalizer (damaged, malfunction, maintenance)
3/28/13	118	408	24480	126		999 No Equipment failure
					500 Lightning	999 No Equipment failure
6/13/13	50	0	0	279	500 Lightning	999 No Equipment failure
6/16/13	1	70	4200	60		999 No Equipment failure
7/21/13	55	0	0	75	999 Cause Unknown	999 No Equipment failure
9/14/13	1	0	0	56	999 Cause Unknown	999 No Equipment failure
		408	Total Minutes		Percentage of outage duration	
			37980			
				1.26%	100 Construction	
				23.22%	490 Maintenance, Other	-
				64.45%	500 Lightning	
				11.06%	999 Cause Unknown	*
Corrective act	ion plan for Hinkston	Substation - Circuit	t 3 - Stepstone Road -	Mt. View - Hwy 82-Sno	ow Creek - Practice good preventive maintenance, perform	
				d find the reason for t		<u> </u>
	•	•	,		-	
						
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PSC Reliability	Report for 2013		_			
r se Kellability	report for 2013		 -			
Substation name	a Hone					
Substation Num						
	Circuit 2 Hope Means	Pood				
	- Nearest Community					· · · · · · · · · · · · · · · · · · ·
	ans Road - East Fork		30			
	omery -Menifee -Batl		office and Book Co. of			
	n - Tri County area of	Montgomery - Mei	nifee and Bath County	/ Kentucky		
Total Circuit Len						
	for this circuit - 389					
Date of last Circ	uit Trim - Prior to 200	9				
Date (CAIDI	SAIDI	SAIFI			
					<u></u>	
2008	67	48			<u> </u>	
2009	76	9				
2010	74	26				
2011	49	65	1.33			
2012	83	14	0.17			
2013	48	53	1.11			
5 yr average	70	32	0.54			
Outage date	CustomersAffected	CustomerHours	In Minutes	Duration in Minutes	Cause	Equipment/Material Failure
8/1/13	7	11	672	96	100 Construction	999 No Equipment failure
1/25/13	5	253	15180	49	300 Material or Equipment Fault/Failure	360 Fuse cutout (damaged, malfunction, maintenance)
1/25/13	2	0	0	108	300 Material or Equipment Fault/Failure	500 Transformer bad
12/15/13	326	0	0	45	300 Material or Equipment Fault/Failure	S00 Transformer bad
1/26/13	2	8	8	215	400 Decay/Age of Material/Equipment	300 Line conductor
2/17/13	1	0	0	85	400 Decay/Age of Material/Equipment	360 Fuse cutout (damaged, malfunction, maintenance)
4/24/13	2	4	240	64	420 Tree Growth	999 No Equipment failure
5/23/13	1	0	0	90	420 Tree Growth	999 No Equipment failure
6/13/13	7	5	300	22	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
7/4/13	2	0	0	60	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/11/13	1	1	85	85	490 Maintenance, Other	340 Insulator
8/21/13	1	6	360	159	500 Lightning	999 No Equipment failure
8/21/13	2	0	0	91	500 Lightning	999 No Equipment failure
5/5/13	1	1	36	36	601 Squirrel	999 No Equipment failure
8/4/13	<u>2</u>	1	88	45	610 Large Animal	999 No Equipment failure
1-7-7-5						
— —			Total Minutes		Percentage of outage duration	
 			16969		r er er mange duration	
			10303	3.96%	100 Construction	
					300 Material or Equipment Fault/Failure	
				0.05%	400 Decay/Age of Material/Equipment	
 				1.41%	420 Tree Growth	
	tion plan for Hope Sul			1.41%	430 Tree failure from overhang or dead tree without ice/snow	
	e good preventive m				490 Maintenance, Other	
looking for po	otential problems. Rep	pair defective item	s ASAP			
H			Ч		500 Lightning	
H			Ц		601 Squirrel	
				0.21%	610 Large Animal	
—						
				L		<u> </u>

PSC Reliabilit	y Report for 2013					
	3 - Spencer Pike	95.40	990			
Substation nam		33.40				
Substation Nun			-			
	Circuit 3 Spencer Pike		-			
	- Nearest Community		-			
	Pike-Tapp Lane-Bedfo				-	
		ora Koaa				
	gomery County, Ky.	-f 14				
	on - Southeastern part	or Montgomery Co	I Entucky			
	ngth 95.40 miles				 	
	t for this circuit - 990					
Date of last Cir	cuit Trim - Prior to 200	<u></u>				
	04101		54151			
Date	CAIDI	SAIDI	5AIF1			
<u> </u>						· · · · · · · · · · · · · · · · · · ·
2008	104	16				
2009	70	20				<u> </u>
2010	177	236				
2011	64	100	1.56			
2012	96	53				
2013	63	63				
5 yr average	102	85	0.77		<u> </u>	
					<u> </u>	<u> </u>
Outage date	CustomersAffected	CustomerHours	In Minutes	Duration in Minutes	Cause	Equipment/Material Failure
4/22/13	_ 2	22	1320	188	100 Construction	999 No Equipment failure
6/24/13	3	0	0	143	100 Construction	999 No Equipment failure
7/15/13	2	0	0	183	100 Construction	999 No Equipment failure
7/23/13	2	0	0	78	100 Construction	999 No Equipment failure
4/17/13	2	2	120	9	110 Maintenance	999 No Equipment failure
6/3/13	1	0	0	63	110 Maintenance	999 No Equipment failure
5/17/13	12	8	480	41	300 Material or Equipment Fault/Failure	350 Lightning arrester line
11/28/13	5	7	415	82	340 Overload	999 No Equipment failure
1/9/13	47	57	3420	60	400 Decay/Age of Material/Equipment	360 Fuse cutout (damaged, malfunction, maintenance)
1/22/13	1	0	0	60	400 Decay/Age of Material/Equipment	310 Connector or clamp
1/28/13	13	0	0	39	400 Decay/Age of Material/Equipment	300 Line conductor
3/10/13	1	0	0	60	400 Decay/Age of Material/Equipment	330 Jumper
5/27/13	1	1	49	49	410 Corrosion/Abrasion of Material/Equipment	310 Connector or clamp
6/26/13	101	103	6180	65	420 Tree Growth	999 No Equipment failure
7/26/13	1	0	0	66	420 Tree Growth	999 No Equipment failure
7/27/13	3	0	0	99	420 Tree Growth	999 No Equipment failure
4/11/13	35	330	19800	223	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
4/11/13	1	0	0	281	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/1/13	1	0	0	65	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/9/13	23	0	0	46	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/9/13	18	0	0	52	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/13/13	1	0	0	299	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/14/13	3	0	0	390	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/17/13	139	0	0	26	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/23/13	1	0	0		430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
7/11/13	64	0	0	57	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
7/11/13	1	0	0	72	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
7/13/13	2	0	0	65	430 Tree failure from overhang or dead tree without Ice/snow	999 No Equipment failure
7/23/13	2	0	ō		430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
						1

Hope Substation - Circuit 3 Spencer Road

0/24/42	1 10			40	420 Tree feiture from everbang or dead tree with a 4 to 4	2000 No Equipment failure
8/21/13	10	0	0	40	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
8/31/13	11	0	0	45	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
1/22/13	1	0	0	72	430 Tree failure from overhang or dead tree without Ice/snow	999 No Equipment failure
5/20/13	11	3	180	44	490 Maintenance, Other	999 No Equipment failure
8/9/13	2	0	0	51	490 Maintenance, Other	360 Fuse cutout (damaged, malfunction, maintenance)
5/13/13	1	110	6600	258	500 Lightning	999 No Equipment failure
6/17/13	139	0	0	39	500 Lightning	999 No Equipment failure
6/27/13	1	0	0	37	500 Lightning	999 No Equipment failure
5/27/13	11	0	0	116	500 Lightning	999 No Equipment failure
6/27/13	5	0	0	116	500 Lightning	999 No Equipment failure
9/2/13	1	0_	0	43	500 Lightning	999 No Equipment failure
3/5/13	71	83	4970	96	510 Wind, Not Trees	999 No Equipment failure
6/3/13	1	3	180	117	600 Small Animal/Bird	999 No Equipment failure
8/22/13	2	0	0	16	600 Small Animal/Bird	999 No Equipment failure
5/30/13	1	5	300	173	601 Squirrel	999 No Equipment failure
9/9/13	1	0	0	81	601 Squirrel	999 No Equipment failure
10/23/13	2	0	0	32	601 Squirrel	999 No Equipment failure
5/24/13	2	180	10800	100	999 Cause Unknown	999 No Equipment failure
6/26/13	101	0	0	79	999 Cause Unknown	999 No Equipment failure
7/7/13	5	0	0	85	999 Cause Unknown	999 No Equipment failure
8/5/13	5	Ō	0	40	999 Cause Unknown	999 No Equipment failure
8/16/13	1	0	0	42	999 Cause Unknown	999 No Equipment failure
8/22/13	29	0_	0	68	999 Cause Unknown	999 No Equipment failure
						<u> </u>
			ļ		Percentage of outage duration	<u> </u>
			Total Minutes		<u> </u>	<u> </u>
	<u> </u>		54814	2.41%	100 Construction	<u> </u>
				0.22%	110 Maintenance	<u> </u>
			<u> </u>	0.88%	300 Material or Equipment Fault/Failure	<u> </u>
		l	L	0.76%	340 Overload	<u> </u>
Corrective	action plan for Hope S	bstation - Circuit 3	3 - Spencer Pike	6.24%	400 Decay/Age of Material/Equipment	<u> </u>
Hope Subst	tation has been put on	the list for ROW cl	earing in 2014-15.	0.09%	410 Corrosion/Abrasion of Material/Equipment	<u> </u>
Clark Energ	y plans on practicing g	ood preventive ma	intenance,	11.27%	420 Tree Growth	<u> </u>
perform lin	e patrol looking for po	tential problems. R	Repair defective	36.12%	430 Tree failure from overhang or dead tree without ice/snow	
items ASAP				0.33%	490 Maintenance, Other	
i				12.04%	500 Lightning	
•				9.07%	510 Wind, Not Trees	
				0.33%	600 Small Animal/Bird	
				0.55%	601 Squirrel	
				19.70%	999 Cause Unknown	
	T	<u> </u>				
		l — — —			 	

						
PSC Reliability	y Report for 2013					_
Substation nam	e - Hunt					
Substation Num	ber - N1		_		-	
	Circuit 1 Muddy Cree	k Road				
	- Town - Winchester,		_			
	reek - Cole Road - Dr				· · · · · · · · · · · · · · · · · · ·	
County - Clark C		y 1 0 1 K 110 0 0				
	n - East Central Kentu					
	ngth 43.32 miles	LKY				
	t for this circuit - 402					
	cuit Trim - 2010	members				
Date of last Circ	cult Irim - 2010					
 						
Date	CAIDI	SAIDI	SAIFI			
ļ						<u> </u>
2008	68	16				
2009	118	45	0.38			<u> </u>
2010	68	90	1.31			<u> </u>
2011	107	47	0.43			
2012	37	47	1.28			
2013	62	88	1.42			
5 yr average	80	49	0.73			
						
Outage date	CustomersAffected	CustomerHours	In Minutes	Duration in Minutes	Cause	Equipment/Material Failure
- <u>* </u>	- "					
9/25/13	2	36	2160	483	100 Construction	999 No Equipment failure
9/30/13	1	0	0	110	100 Construction	999 No Equipment failure
10/10/13	2	0	Ö	139	100 Construction	999 No Equipment failure
10/15/13	2	0	18	9	100 Construction	999 No Equipment failure
10/21/13		0	0	130	100 Construction	999 No Equipment failure
10/22/13	1	0	0	119	100 Construction	999 No Equipment failure
	2	0	0	205		
11/4/13		0	0	60	100 Construction	999 No Equipment failure
11/7/13	1	0	0	51	100 Construction	999 No Equipment failure
11/14/13	1				100 Construction	999 No Equipment failure
5/20/13	3	12	720	82	110 Maintenance	999 No Equipment failure
6/17/13	6	0	0	62	110 Maintenance	999 No Equipment failure
10/7/13	1	0	0	116	110 Maintenance	999 No Equipment failure
12/15/13	4	5	324	81	340 Overload	999 No Equipment failure
1/23/13	_3	12	720	197	400 Decay/Age of Material/Equipment	300 Line conductor
5/13/13	1	0	0	138	400 Decay/Age of Material/Equipment	500 Transformer bad
6/26/13	4	6	340	85	420 Tree Growth	999 No Equipment failure
6/16/13	6	14	822	136	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
9/23/13	4	7	420	26	490 Maintenance, Other	999 No Equipment failure
10/4/13	3	0	0	102	490 Maintenance, Other	999 No Equipment failure
S/10/13	1	68	4080	53	500 Lightning	999 No Equipment failure
6/13/13	4	0	0	88	500 Lightning	999 No Equipment failure
6/18/13	4	0	Ō	116	500 Lightning	999 No Equipment failure
6/22/13	4	0	0	62	500 Lightning	999 No Equipment failure
6/26/13	13	0	0	157	500 Lightning	999 No Equipment failure
6/26/13		0	- 0	356	500 Lightning	999 No Equipment failure
6/27/13	3	0	0	117	500 Lightning	999 No Equipment failure
7/2/13	2	0	0	97	500 Lightning	999 No Equipment failure
	11	19	1111			
10/31/13				101	510 Wind, Not Trees	999 No Equipment failure
4/25/13	1	8	480	23	600 Small Animal/Bird	999 No Equipment failure

Hunt Substation - Circuit 3 Muddy Creek Road

5/25/13	2	0	0	63	600 Small Animal/Bird	999 No Equipment failure
9/29/13	13	0	0	27	600 Small Animal/Bird	999 No Equipment failure
1/14/13	4	3	188	47	710 Motor Vehicle	999 No Equipment failure
6/6/13	358	298	17900	50	800 Other	999 No Equipment failure
4/29/13	3	34	2040	64	999 Cause Unknown	999 No Equipment failure
5/17/13	3	0	0	54	999 Cause Unknown	999 No Equipment failure
5/19/13	3	0	0	79	999 Cause Unknown	999 No Equipment failure
8/11/13	1	0	0	71	999 Cause Unknown	999 No Equipment failure
9/13/13	11	0	0	43	999 Cause Unknown	999 No Equipment failure
9/29/13	11	0	0	52	999 Cause Unknown	999 No Equipment failure
9/30/13	13	0	0	55	999 Cause Unknown	999 No Equipment failure
11/4/13	1	0	0	53	999 Cause Unknown	999 No Equipment failure
			Total Minutes		Percentage of outage duration	
			31323			
				6.90%	100 Construction	
				2.30%	110 Maintenance	
				1.03%	340 Overload	
Corrective	e action plan for Hunt	: Substation - Circu	iit 1 - Muddy 📙	2.30%	400 Decay/Age of Materiai/Equipment	
	actice good preventiv			1.09%	420 Tree Growth	
	a as prescribed by th			2.62%	430 Tree failure from overhang or dead tree without ice/snow	
	cause to try and find the reason for the outage.		1.34%	490 Maintenance, Other		
			<u>l</u>	13.03%	500 Lightning	
<u> </u>			l	3.55%	510 Wind, Not Trees	
				1.53%	600 Small Animal/Bird	
				0.60%	710 Motor Vehicle	
				57.15%	800 Other	
				6.51%	999 Cause Unknown	
			J			

Substation Number -	PSC Reliabilit	y Report for 2013		<u> </u>	l		
Sobstation Number + N1		1					
Sobstation Number + N1	Substation nam	ne - Hunt					
Creat News - Creat 3 College will Road					-		
County - Christ Age - College Miles County - Christ Marketon County Christ Marketon County - Christ Marketon - Christ Marketon County - Ch			I				
Road - National Ferry Road - College HII Road - Filter Road - Showden lane				-			
County - CharlyMadeino County, N				ad - Spoudon Jana			<u> </u>
Series Seculation - Southern Casts Country/Northern Marksion Country C				au - Snowden lane			<u> </u>
Total Crost Length 75:70 miles				licas Cauchi			
Customer count for this circut. 7-43 members			T Transfer I I I I I I I I I I I I I I I I I I I	dison County			
Date CADR				<u> </u>			
Date CADI			members				
2008 112 47 0.42	Date of last Cir-	Cuit 171m - 2010					
2008 112 47 0.42	5-1-	64101	64191	-		<u> </u>	
2009 166 68 0.41	Date	CAIDI	SAIDI	SAIFI			
2009 166 68 0.41							
2010 92 57 0.62							
2011 94 336 3.58							
2012 105 125 1.19							
2013 75 217 2.88							
Syraverage							
Outsge date CustomersAffected CustomersA	2013						
	5 yr average	114	127	1.24			
11/77/13	Outage date	CustomersAffected	CustomerHours	In Minutes	Duration In Minutes	Cause	Equipment/Material Failure
11/77/13							
12/7/13			433	25980	39	100 Construction	999 No Equipment failure
12/7/13	11/27/13	12	0	0	101	100 Construction	
12/14/13 3	12/7/13	4	13	780	25	340 Overload	
12/72/13 1	12/14/13	3	0	0	136	340 Overload	
5/2/13 6 8 486 81 410 Corrosion/Abrasion of Material/Equipment 360 Fuse cutout (damaged, maifunction, maintenance)	12/22/13	1	0	0	229	340 Overload	
527/13 6 8 485 81 410 Corrosion/Abrasion of Material/Equipment 360 Fuse cutout (damaged, malfunction, maintenance)	11/30/13	1	3	182	182	400 Decay/Age of Material/Equipment	500 Transformer bad
1/3 3 180 82 420 Tree Growth 999 No Equipment failure	6/2/13	6	8	486	81	410 Corrosion/Abrasion of Material/Equipment	360 Fuse cutout (damaged, malfunction, maintenance)
10/31/13 7 0 0 20 420 Tree Growth 999 No Equipment failure	7/9/13	1	3	180	82	420 Tree Growth	
2/1/13 2 47 2820 143 430 Tree failure from overhang or dead tree without ice/snow 999 No Equipment failure 6/26/13 9 0 0 194 430 Tree failure from overhang or dead tree without ice/snow 999 No Equipment failure 999 No Equipment failur	10/31/13	7	0	0	20		
6/26/13 9 0 0 194 430 Tree failure from overhang or dead tree without ice/snow 999 No Equipment failure 991 No Equipment failure 991 No Equipment failure 992 No Equipment failure 993 No Eq	2/1/13	2	47	2820	143		
8/31/13 1 0 0 146 430 Tree failure from overhang or dead tree without ice/snow 999 No Equipment failure 11/3/13 4 0 0 0 146 430 Tree failure from overhang or dead tree without ice/snow 999 No Equipment failure 12/8/13 2 0 0 0 24 430 Tree failure from overhang or dead tree without ice/snow 999 No Equipment failure 12/8/13 7 5 273 39 440 Trees With ice/Snow 999 No Equipment failure 12/8/13 637 1765 105900 133 500 Lightning 999 No Equipment failure 14/11/13 480 0 0 0 43 500 Lightning 999 No Equipment failure 14/11/13 1 0 0 0 102 500 Lightning 999 No Equipment failure 14/11/13 1 0 0 0 119 500 Lightning 999 No Equipment failure 14/11/13 1 0 0 0 0 119 500 Lightning 999 No Equipment failure 14/11/13 1 0 0 0 98 500 Lightning 999 No Equipment failure 14/11/13 1 0 0 0 998 500 Lightning 999 No Equipment failure 14/11/13 1 0 0 0 998 500 Lightning 999 No Equipment failure 14/11/13 1 0 0 0 998 500 Lightning 999 No Equipment failure 14/11/13 1 0 0 0 991 500 Lightning 999 No Equipment failure 14/11/13 1 0 0 0 991 500 Lightning 999 No Equipment failure 14/11/13 1 0 0 0 991 500 Lightning 999 No Equipment failure 14/11/13 1 0 0 0 991 500 Lightning 999 No Equipment failure 14/11/13 1 0 0 0 991 500 Lightning 999 No Equipment failure 14/11/13 1 0 0 0 0 91 999 Cause Unknown 999 No Equipment failure 14/12/13 1 0 0 0 134 999 Cause Unknown 999 No Equipment failure 14/12/3/13 1 0 0 0 134 999 Cause Unknown 999 No Equipment failure 14/12/3/13 1 0 0 0 134 999 Cause Unknown 999 No Equipment failure	6/26/13	9	0				
11/3/13 4 0 0 146 430 Tree failure from overhang or dead tree without Ice/snow 999 No Equipment failure 12/8/13 2 0 0 24 430 Tree failure from overhang or dead tree without Ice/snow 999 No Equipment failure 12/8/13 7 5 273 39 440 Trees With Ice/Snow 999 No Equipment failure 3/18/13 637 1765 105900 133 500 Lightning 999 No Equipment failure 4/11/13 480 0 0 43 500 Lightning 999 No Equipment failure 4/17/13 1 0 0 102 500 Lightning 999 No Equipment failure 4/17/13 1 0 0 119 500 Lightning 999 No Equipment failure 6/16/13 1 0 0 98 500 Lightning 999 No Equipment failure 5/22/13 1 0 0 98 500 Lightning 999 No Equipment failure 5/22/13 1 3 161 161 510 Wind, Not Trees 999 No Equipment failure 4/25/13 6 13 780 49			0				
12/8/13 2 0 0 24 430 Tree failure from overhang or dead tree without ice/snow 999 No Equipment failure 12/8/13 7 5 273 39 440 Trees With Ice/Snow 999 No Equipment failure 3/18/13 637 1765 105900 133 500 Ughtning 999 No Equipment failure 4/11/13 480 0 0 43 500 Ughtning 999 No Equipment failure 4/17/13 1 0 0 102 500 Ughtning 999 No Equipment failure 6/16/13 1 0 0 119 500 Ughtning 999 No Equipment failure 9/11/13 4 0 0 98 500 Ughtning 999 No Equipment failure 9/11/13 1 0 0 98 500 Ughtning 999 No Equipment failure 9/11/13 1 0 0 91 500 Ughtning 999 No Equipment failure 5/22/13 1 3 161 161 510 Wind, Not Trees 999 No Equipment failure 4/25/13		4	0	0			
12/8/13 7 5 273 39 440 Trees With Ice/Snow 999 No Equipment failure 3/18/13 637 1765 105900 133 500 Lightning 999 No Equipment failure 4/11/13 480 0 0 43 500 Lightning 999 No Equipment failure 4/17/13 1 0 0 102 500 Lightning 999 No Equipment failure 6/16/13 1 0 0 119 500 Lightning 999 No Equipment failure 9/11/13 4 0 0 98 500 Lightning 999 No Equipment failure 11/15/13 1 0 0 91 500 Lightning 999 No Equipment failure 11/25/13 1 0 0 91 500 Lightning 999 No Equipment failure 5/22/13 1 3 161 161 510 Wind, Not Trees 999 No Equipment failure 4/25/13 6 13 780 49 999 Cause Unknown 999 No Equipment failure 11/23/13 1	12/8/13	2					
3/18/13 637 1765 105900 133 500 Lightning 999 No Equipment failure	12/8/13						999 No Equipment failure
4/11/13 480 0 0 43 500 Lightning 999 No Equipment failure 4/17/13 1 0 0 102 500 Lightning 999 No Equipment failure 6/16/13 1 0 0 119 500 Lightning 999 No Equipment failure 9/11/13 4 0 0 98 500 Lightning 999 No Equipment failure 11/15/13 1 0 0 91 500 Lightning 999 No Equipment failure 5/22/13 1 3 161 161 510 Wind, Not Trees 999 No Equipment failure 4/25/13 6 13 780 49 999 Cause Unknown 999 No Equipment failure 6/16/13 4 0 0 91 999 Cause Unknown 999 No Equipment failure 11/23/13 1 0 0 134 999 Cause Unknown 999 No Equipment failure 11/23/13 1 0 0 134 999 Cause Unknown 999 No Equipment failure 11/23/13 1 0 0 134 999 Cause Unknown 999 No Equipment failure	3/18/13	•					
4/17/13 1 0 0 102 500 Lightning 999 No Equipment failure 6/16/13 1 0 0 119 500 Lightning 999 No Equipment failure 9/11/13 4 0 0 98 500 Lightning 999 No Equipment failure 11/15/13 1 0 0 91 500 Lightning 999 No Equipment failure 5/22/13 1 3 161 161 510 Wind, Not Trees 999 No Equipment failure 4/25/13 6 13 780 49 999 Cause Unknown 999 No Equipment failure 6/16/13 4 0 0 91 999 Cause Unknown 999 No Equipment failure 11/23/13 1 0 0 134 999 Cause Unknown 999 No Equipment failure 11/23/13 1 0 0 134 999 Cause Unknown 999 No Equipment failure 11/23/13 1 0 0 134 999 Cause Unknown 999 No Equipment failure 11/23/13 1 0 0 134 999 Cause Unknown 999 No Equipment failure <tr< td=""><td> </td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>	 						
6/16/13 1 0 0 119 500 Lightning 999 No Equipment failure 9/11/13 4 0 0 0 98 500 Lightning 999 No Equipment failure 11/15/13 1 0 0 0 91 500 Lightning 999 No Equipment failure 5/22/13 1 3 161 161 510 Wind, Not Trees 999 No Equipment failure 4/25/13 6 13 780 49 999 Cause Unknown 999 No Equipment failure 6/16/13 4 0 0 0 91 999 Cause Unknown 999 No Equipment failure 11/23/13 1 0 0 0 91 999 Cause Unknown 999 No Equipment failure 11/23/13 1 0 0 0 P1 999 Cause Unknown 999 No Equipment failure 11/23/13 1 0 0 0 P1 999 Cause Unknown 999 No Equipment failure 11/23/13 1 1 0 0 0 134 999 Cause Unknown 999 No Equipment failure							
9/11/13							
11/15/13 1 0 0 91 500 Lightning 999 No Equipment failure 5/22/13 1 3 161 161 510 Wind, Not Trees 999 No Equipment failure 4/25/13 6 13 780 49 999 Cause Unknown 999 No Equipment failure 6/16/13 4 0 0 91 999 Cause Unknown 999 No Equipment failure 11/23/13 1 0 0 134 999 Cause Unknown 999 No Equipment failure Total Minutes Percentage of outage duration Percentage of outage duration ————————————————————————————————————							
5/22/13 1 3 161 161 510 Wind, Not Trees 999 No Equipment failure 4/25/13 6 13 780 49 999 Cause Unknown 999 No Equipment failure 6/16/13 4 0 0 91 999 Cause Unknown 999 No Equipment failure 11/23/13 1 0 0 134 999 Cause Unknown 999 No Equipment failure Total Minutes Percentage of outage duration 137542 137542 Percentage of outage duration							
4/25/13 6 13 780 49 999 Cause Unknown 999 No Equipment failure 6/16/13 4 0 0 91 999 Cause Unknown 999 No Equipment failure 11/23/13 1 0 0 134 999 Cause Unknown 999 No Equipment failure Total Minutes Percentage of outage duration 137542 Percentage of outage duration							+
6/16/13 4 0 0 0 91 999 Cause Unknown 999 No Equipment failure 11/23/13 1 0 0 0 134 999 Cause Unknown 999 No Equipment failure Total Minutes Percentage of outage duration 137542							
11/23/13 1 0 0 134 999 Cause Unknown 999 No Equipment failure Total Minutes Percentage of outage duration 999 No Equipment failure							
Total Minutes Percentage of outage duration 137542							
137542	**/**3/13	<u> </u>	, , , , , , , , , , , , , , , , , , ,		134	233 Cause Unknown	AAA NO Ednibweut tailnie
137542				Total Adiautes			
						Percentage of outage duration	
18.89% 100 Construction				13/542	10.0004	100 5	
	L'	• • •	•	<u>-</u> -	18.89%	100 Construction	<u>L</u>

Hunt Substation - Circuit 3 - College Hill Road

Corrective action plan for Hunt Substation - Circuit 1 - Muddy	0.57%	340 Overload
Creek Practice good preventive maintenance, perform line	0.13%	400 Decay/Age of Material/Equipment
patrol on a as prescribed by the PSC and check any unknown	0.35%	410 Corrosion/Abrasion of Material/Equipment
cause to try and find the reason for the outage.	0.13%	420 Tree Growth
	2.05%	430 Tree failure from overhang or dead tree without ice/snow
	0.20%	440 Trees With Ice/Snow
	76.99%	500 Lightning
.[□	0.12%	510 Wind, Not Trees
	0.57%	999 Cause Unknown
	1	

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PSC Reliability	y Report for 2013	_				
Substation nan	ne - Jeffersonvile Subs	station				
Substation Nur	mber - E87					
	Circuit 1 Hwy 599					
	n - Town - Mt. Sterling	Kv.		_	_	
Road - Hwy 59		<u> </u>				
	gomery County, Ky					
		-1				
	on - East Central Kentu	СКУ				
	ength 61.17 miles	L				
	nt for this circuit - 958					
Date of last Cir	cuit Trim - Full curcuit	trim prior to 2009	but trimming done o	n an as needed basis	<u> </u>	
						<u> </u>
Date	CAIDI	SAIDI	SAIFI			
2008	61	10	0.17			
2009	62	68		· · · · · · · · · · · · · · · · · · ·		
2010	127	40				
2011	89	43			 	
2012	84	127				
2012	58	114		510		
	85	58		210	<u> </u>	
5 yr average	85	58	0.71			
<u> </u>						
Outage date	CustomersAffected	CustomerHours	In Minutes	Duration In Minutes	Cause	Equipment/Material Failure
					<u> </u>	
7/10/13	135S	903	54200	40	000 Power Supply	999 No Equipment failure
1/17/13	2	23	1380	60	100 Construction	999 No Equipment failure
2/26/13	2	0	0	32	100 Construction	999 No Equipment failure
4/22/13	6	0	0	85	100 Construction	999 No Equipment failure
7/30/13	2	0	0	129	100 Construction	999 No Equipment failure
8/1/13	6	0	0	68	100 Construction	999 No Equipment failure
11/15/13	1	0	0	18	100 Construction	999 No Equipment failure
5/2/13	2	22	1320	25	110 Maintenance	490 Underground, other
7/2/13	6	0	0	178	110 Maintenance	999 No Equipment failure
10/23/13	5	0	0	35	110 Maintenance	999 No Equipment failure
1/14/13	4	5	320	145	300 Material or Equipment Fault/Failure	500 Transformer bad
2/10/13	1	669	40140		400 Decay/Age of Material/Equipment	3SO Lightning arrester line
4/9/13	481	0	0	106	400 Decay/Age of Material/Equipment	300 Line conductor
7/16/13	2	0	0	28	400 Decay/Age of Material/Equipment	350 Lightning arrester line
7/18/13	1	- 0	0		400 Decay/Age of Material/Equipment	360 Fuse cutout (damaged, malfunction, maintenance)
8/5/13	1	7	420	77	420 Tree Growth	999 No Equipment failure
			0	337	420 Tree Growth	
10/31/13	5					999 No Equipment failure
1/29/13	1	510	30600		430 Tree failure from overhang or dead tree without Ice/snow	999 No Equipment failure
4/19/13	6	0	0	134	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/13/13	1	0	0	435	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/17/13	13	0	0		430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/27/13	29	0	0	123	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/28/13	6	0	0	222	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
7/10/13	1	0	0	89	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
7/17/13	1	Ó	0	191	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
8/9/13	49	0	0	274	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
10/5/13	1	0	0		430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
10/11/13	1	0	0	156	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
10/31/13	2	0	0		430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
11/7/13	49	0	0		430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
				20	1430 mee randre mom overnang of dead tree without ite/Show	1333 NO EQUIPMENT TONUE

1	2	122	122	440 Trees With Ice/Snow	999 No Equipment failure
1	463	27780	110	490 Maintenance, Other	360 Fuse cutout (damaged, malfunction, maintenance)
34	0	0	139	490 Maintenance, Other	999 No Equipment failure
1	0	0	61	490 Maintenance, Other	999 No Equipment failure
18	0	0	49	490 Maintenance, Other	370 Recloser or sectionalizer (damaged, malfunction, maintenance)
829	0	0	170	490 Maintenance, Other	300 Line conductor
2	58	3480	67	500 Lightning	999 No Equipment failure
1	0	0	83	500 Lightning	999 No Equipment failure
1	0	0	46	500 Lightning	999 No Equipment failure
4	0	0	87	500 Lightning	999 No Equipment failure
4	0	0	108	500 Lightning	999 No Equipment failure
- 6	0	0	59	500 Lightning	999 No Equipment fallure
26	0	0	78	500 Lightning	999 No Equipment failure
1	0	0	50	500 Lightning	999 No Equipment failure
2	2	112	57	600 Smail Animal/Bird	999 No Equipment failure
4	7	420	59	999 Cause Unknown	999 No Equipment failure
2	0	0	S1	999 Cause Unknown	999 No Equipment failure
1	0	0	62	999 Cause Unknown	999 No Equipment failure
	-				
		Total Minutes		Percentage of outage duration	
		160294			
			33.81%	000 Power Supply	
			0.86%	100 Construction	
			0.82%	110 Maintenance	
tion along for lefference	uilla Cubetation (Trouit 1 . Usas	0.20%	300 Material or Equipment Fault/Failure	<u> </u>
			25.04%	400 Decay/Age of Material/Equipment	
natrol looking for dan	ager trees in the e	dee of the ROW.	0.26%	420 Tree Growth	
			19.09%	430 Tree failure from overhang or dead tree without ice/snow	
Add this substation to the now cleaning plant of 2025			0.08%	440 Trees With Ice/Snow	
			17.33%	490 Maintenance, Other	
			2.17%	500 Lightning	<u> </u>
			0.07%	600 Small Animal/Bird	<u> </u>
<u> </u>			0.26%	999 Cause Unknown	
	·				
1	34 1 18 829 2 1 1 1 4 4 5 6 26 1 2 4 2 1 ion plan for Jeffersor ly/Hwy 213 - Practice actrol looking for dan	1 463 34 0 1 0 18 0 829 0 2 58 1 0 1 0 4 0 4 0 6 0 26 0 1 0 2 2 4 7 2 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	1 463 27780 34 0 0 1 0 0 18 0 0 829 0 0 2 58 3480 1 0 0 4 0 0 4 0 0 6 0 0 26 0 0 27 0 4 0 0 6 0 0 7 0 7 0 7 0 1 0 0	1 463 27780 110 34 0 0 0 139 1 0 0 0 49 829 0 0 0 170 2 58 3480 67 1 0 0 0 83 1 0 0 0 87 4 0 0 0 87 4 0 0 0 59 26 0 0 0 78 1 0 0 0 59 26 0 0 0 78 1 0 0 0 59 26 0 0 0 59 27 2 112 57 4 7 420 59 2 0 0 0 51 1 0 0 62 Total Minutes 160294 19/Hwy 213 - Practice good preventive maintenance, patrol looking for danager trees in the edge of the ROW. tation to the ROW clearing plan for 2015 17.33% 2.17% 0.08%	1

						
PSC Reliability	Report for 2013_					
						·
Substation nam	ne - Miller Hunt					
Substation Nun	nber - N71					
	Circuit 1 Miller Hunt I	Road				
	- Town - Winchester			-		
	unt Road/Hwy 15/Sto				-	
County - Clark		ner ephesos nodo	-			
	on - East Central Kentu	· clar				
		icky			· · · · · · · · · · · · · · · · · · ·	
	ngth 38.77 miles		·			
	t for this circuit - 349				 	
Date of last Cir	cuit Trim - Full trim pr	ior to 2009 but are	as addressed as need	led		
Date	CAIDI	SAIDI	SAIFI			
2008	80	29	0.36			
2009	92	56	0.61			
2010	158	100				
2011	86	215				
2012	67	99	1.47	-		
2012	115	187	1.62			
	97					
5 yr average	97	100				
				D	C	Equipment/Material Failure
Outage date	CustomersAffected	CustomerHours	In Minutes	Duration in Minutes	Cause	Equipment waterial randle
						000 No Continuos fathura
3/14/13	30	31	1860	60	100 Construction	999 No Equipment failure
11/27/13	11	0	0	81	100 Construction	999 No Equipment failure
9/23/13	2	4	230	115	400 Decay/Age of Material/Equipment	999 No Equipment failure
5/21/13	41	176	10560	164	420 Tree Growth	999 No Equipment failure
7/14/13	2	0	0	55	420 Tree Growth	999 No Equipment failure
7/23/13	2	0	0	190	420 Tree Growth	999 No Equipment failure
10/31/13	29	0	0	66	420 Tree Growth	999 No Equipment failure
10/31/13	S	0	0	32	420 Tree Growth	999 No Equipment failure
11/12/13		0	0	259	420 Tree Growth	999 No Equipment failure
	2	62	3720	94	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/10/13			0	117	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/28/13	7	0		93	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
12/21/13	29	0	0			999 No Equipment failure
10/31/13	314	644	38622	123	510 Wind not trees	999 No Equipment failure
4/17/13	2	38	2280	76	500 Lightning	
5/18/13	S	0	0	45	500 Lightning	999 No Equipment failure
6/13/13	1	0	0	150	500 Lightning	999 No Equipment failure
6/27/13	5	0	0	335	500 Lightning	999 No Equipment failure
8/7/13	5	0	0 _	171	500 Lightning	999 No Equipment failure
1/26/13	1	16	960	40	999 Cause Unknown	999 No Equipment failure
6/1/13	12	0	0	36	999 Cause Unknown	999 No Equipment failure
12/17/13	8	0	0	33	999 Cause Unknown	999 No Equipment failure
12/28/13	- 4	0		53	999 Cause Unknown	999 No Equipment failure
12/20/13	 	 	 	 	222	
<u> </u>		 	Total Minutes	 	Percentage of outage duration	
			T C CONTROL OF OUTUGE WORKERS			
	58232			2 1004	100 Construction	
		ļ	<u> </u>	3.19%	100 Construction	
Corrective	ction plan for Miller H	unt Substation - Ci	rcuit 1 - Miller	0.39%	400 Decay/Age of Material/Equipment	
	Practice good prevent			18.13%	420 Tree Growth	
	s substation is due for			6.39%	430 Tree failure from overhang or dead tree without ice/snow	
necueu. mi	, 30,310,001113,000,101			66.32%	510 Wind not trees	
į						

Miller Hunt Subsation - Circuit 1 - Miller Hunt Road

[ı ı		ı	3.92%	500 Lightning		
				1.65%	999 Cause Unknown		
		_					
	Ì				·"·	l	

				 		T
PSC Reliability	Report for 2013					
i i						
Substation nam	ne - Miller Hunt					
Substation Nun						
	Circuit 2 Hwy 89 (Irvi	an Boad\				
	- Town - Winchester					
	/Ruckerville Road/Wh	ite-Conkright Road	/Agawam Road			
County - Clark (<u> </u>	
General location	on - East Central Kentu	rcky				
Total Circuit Le	ngth 29.14 miles					
Customer coun	nt for this circuit - 320					
Date of last Circ	cuit Trim - Prior to 20	09 but circuit has !	een trimmed on an a	s needed basis		
1					<u> </u>	
Date	CAIDI	SAIDI	SAIFI			
Date	CAID!	3/101	JAN 1			
			0.48			
2008	63	30				-
2009	93	24				
2010	88	73				
2011	133	209				
2012	97	41	0.42			<u> </u>
2013	136	180	1.33			
5 yr average	95	75				
3 yi average						
		G. A	In Minutes	Duration in Minutes	Cauca	Equipment/Material Failure
Outage date	CustomersAffected	Customernours	in winutes	Duration in wind tes	Cause	
					ADD D	310 Connector or clamp
10/23/13	3	19	1140	60	400 Decay/Age of Material/Equipment	
11/28/13	11	0	0	233	400 Decay/Age of Material/Equipment	500 Transformer bad
6/21/13	2	57	3420	101	420 Tree Growth	999 No Equipment failure
7/18/13	11	0	0	131	420 Tree Growth	999 No Equipment failure
11/6/13	30	0	0	60	420 Tree Growth	999 No Equipment failure
5/19/13	2	668	40080	67	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
7/4/13	270	0	0	148	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
	1	55	3300	123	500 Lightning	999 No Equipment failure
6/13/13			0	113	500 Lightning	999 No Equipment failure
6/26/13	2	0				999 No Equipment failure
8/3/13	8	0	0	149	500 Lightning	999 No Equipment failure
8/31/13	1	0	0	131	500 Lightning	
9/1/13	2	0	0	420	500 Lightning	500 Transformer bad
9/11/13	11	0	0	54	S00 Lightning	999 No Equipment failure
9/11/13	1	0	0	180	500 Lightning	999 No Equipment failure
12/22/13	2	9	556	278	510 Wind, Not Trees	999 No Equipment failure
5/1/13	1	2	149	149	710 Motor Vehicle	999 No Equipment failure
3/1/13						
	 		 			
<u></u>	ļ	ļ <u> </u>	ļ			
		↓	<u> </u>			
		<u> </u>	Total Minutes		Percentage of outage duration	
			48645			
Corrective action plan for Miller Hunt Substation - Circuit 2 - Hwy 89			ircuit 2 - Hwy 89	2.34%	400 Decay/Age of Material/Equipment	
(Irvine Road) - Practice good preventive maintenance and patrol lines			e and natrol lines	7.03%	420 Tree Growth	
as needed. This substation is due for ROW clearing in 2015.			n 2015	82.39%	430 Tree failure from overhang or dead tree without ice/snow	
as needed. This substation is due for KOW clearing in 2015.			.,	6.78%	420 Tree Growth	
Н				1.14%	500 Lightning	
Ц				0.02%	510 Wind, Not Trees	
<u> </u>	<u> </u>					
	<u> </u>		<u>ļ. </u>	0.31%	710 Motor Vehicle	
						<u> </u>
		L	<u> </u>		<u> </u>	
				-		

PSC Reliability	Report for 2013					
\Box						
Substation nam	ne - Mount Sterling Su	bstation				
Substation Num	nber - N32					
Circuit Name -	Circuit 2 Levee Road/	/Hwy 11				
	- Town - Mount Ster					
	oad/Hwy 11/Nest Egg		-			
	omery County, Ky					
	n - East Central Kentu	ırkv				<u> </u>
	ngth 65.04 miles					<u> </u>
	t for this circuit - 782					·
	cuit Trim - 2013/2014					
Date of last cire	Call 11111 - 2015/2014					
Date	CAIDI	SAIDI	SAIFI			
Date	CAIDI	יוטואנ	JAII 1		 	
2008	55	94	1.71			
2008	62					
2010	120					
	106					
2011					-	
2012	107	165				
2013	113	·				
5 yr average	90	89	1.07	-		
ļ						Equipment/Material Failure
Dutage date	CustomersAffected	CustomerHours	In Minutes	Duration in Minutes	Cause	Equipment/ Material Fallure
						999 No Equipment failure
5/20/13	11	37	2220	80	100 Construction	
5/20/13	5	0	0	42	100 Construction	999 No Equipment failure
6/6/13	5	0	0	100	100 Construction	999 No Equipment failure
6/11/13	6	0	0	140	100 Construction	999 No Equipment failure
7/1/13	2	0	0	144	100 Construction	999 No Equipment failure
7/31/13	3	0	0	92	100 Construction	999 No Equipment failure
5/14/13	1	1	85	85	110 Maintenance	200 Pole
2/11/13	2	5	270	134	300 Material or Equipment Fault/Failure	360 Fuse cutout (damaged, malfunction, maintenance)
3/4/13	3	9	552	185	340 Overload	500 Transformer bad
4/9/13	672	1475	88500	121	400 Decay/Age of Material/Equipment	300 Line conductor
7/4/13	61	_0	0	117	400 Decay/Age of Material/Equipment	330 Jumper
6/26/13	4	8	480	78	420 Tree Growth	999 No Equipment failure
9/1/13	1	0	0	154	420 Tree Growth	999 No Equipment failure
4/12/13	1	159	9540	75	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/13/13	1	0	0	341	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/18/13	1	0	0	17	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/20/13	116	0	0	173	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
8/21/13	2	0	0	76	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
8/21/13	2	0	0	78	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
8/21/13	1	0	0	125	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
8/22/13	5	0	0	111	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
10/3/13	1	0	0	181	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
4/17/13	4	94	5640	173	500 Lightning	999 No Equipment failure
4/17/13	1	0	0	98	500 Lightning	999 No Equipment failure
5/19/13	1	0	0	62	500 Lightning	999 No Equipment failure
6/17/13	1	0	0	739	500 Lightning	999 No Equipment failure
6/17/13	4	0	0	428	500 Lightning	999 No Equipment failure
6/18/13	2	0	0	70	500 Lightning	999 No Equipment failure
8/21/13	10	0	0	45	500 Lightning	999 No Equipment failure
8/21/13	8	0	0	62	500 Lightning	999 No Equipment failure
_,,	L,				· · · · · · · · · · · · · · · · · · ·	·

2008 55 94 1.7					·		<u>, </u>
Substation Number - 182	PSC Reliability	Report for 2013					
Substation Number - 182							<u></u>
Substation Number - 182	Substation nam	ne - Mount Sterling Su	bstation				
Girott Norw - Crient Livene Dauk/hwy 11							
County Montagement County			Hwv 11			<u> </u>	
The content of the							
Country - Montgamery Country, by							
General Location - East Central Kentral (Problem 1997) Control Circuit Location (Problem 1997) Control Circu			Clean Alley Roat	,			
Total Circuit Length 65.04 miles	<u> </u>			_			
Customer count for this circus - 1782			іску				
Date CADI SADI SADI SAPI							
Date CADI SADO SAFI							
2008 55 54 1.71	Date of last Circ	cuit Trim - 2013/2014					
2008 55 54 1.71							
2009	Date	CAIDI	SAIDI	SAIFI			
2009							
2009	2008	55	94	1.71			
2010 1.20 67							
2011 1.06 1.49 1.41							
2012 107 80 0.74							
2015							
Outsign date CustomersAffected Customers							-
Contage date CustomersAffected CustomerHours In Minutes Cause Equipment/Material Failure							 -
	5 yr average	90	89	1.07			
1709/13 5	Outage date	CustomersAffected	CustomerHours	In Minutes	Duration In Minutes	Cause	Equipment/Material Failure
1709/13 5							
STOPINS S	5/20/13	1	37	2220	80	100 Construction	999 No Equipment failure
			0	0	42	100 Construction	999 No Equipment failure
							999 No Equipment failure
771/13							
7751/13 3							
1							
134 30 Material or Equipment Fault/Failure 360 Fuse cutout (damaged, malifunction, maintenance) 3/4/13 3 9 552 185 340 Overload 500 Transformer bad 500							
3/4/13 3 9 552 185 340 Overload 500 Transformer bad							
1475 3672 1475 88500 121 400 Decay/Age of Material/Equipment 300 Line conductor							
17/4/13 61 0 0 0 117 400 Decay/Age of Material/Equipment 330 Jumper							
17/13	4/9/13		1475				
999 No Equipment failure 999 No Equipment fa	7/4/13	61	0	0	117	400 Decay/Age of Material/Equipment	
159	6/26/13	4	8	480	78	420 Tree Growth	999 No Equipment failure
4/12/13 1 159 9540 75 430 Tree failure from overhang or dead tree without ice/snow 999 No Equipment failure 6/13/13 1 0 0 341 430 Tree failure from overhang or dead tree without ice/snow 999 No Equipment failure 6/18/13 1 0 0 173 430 Tree failure from overhang or dead tree without ice/snow 999 No Equipment failure 6/20/13 116 0 0 173 430 Tree failure from overhang or dead tree without ice/snow 999 No Equipment failure 8/21/13 2 0 0 76 430 Tree failure from overhang or dead tree without ice/snow 999 No Equipment failure 8/21/13 2 0 0 78 430 Tree failure from overhang or dead tree without ice/snow 999 No Equipment failure 8/21/13 1 0 0 125 430 Tree failure from overhang or dead tree without ice/snow 999 No Equipment failure 8/21/13 1 0 0 111 430 Tree failure from overhang or dead tree without ice/snow 999 No Equipment failure 8/21/13 1 0 0 1	9/1/13	1	0	0	154	420 Tree Growth	999 No Equipment failure
1			159	9540	75	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
1							
116 0 0 173 430 Tree failure from overhang or dead tree without Ice/snow 999 No Equipment failure				<u> </u>			
No. No.							
3/21/13 2 0 0 78 430 Tree failure from overhang or dead tree without ice/snow 999 No Equipment failure							
10 12 15 15 15 15 15 15 15							
8/22/13 5 0 0 111 430 Tree failure from overhang or dead tree without ice/snow 999 No Equipment failure 10/3/13 1 0 0 181 430 Tree failure from overhang or dead tree without ice/snow 999 No Equipment failure 4/17/13 4 94 5640 173 500 Lightning 999 No Equipment failure 4/17/13 1 0 0 98 500 Lightning 999 No Equipment failure 5/19/13 1 0 0 62 500 Lightning 999 No Equipment failure 6/17/13 1 0 0 739 500 Lightning 999 No Equipment failure 6/17/13 4 0 0 428 500 Lightning 999 No Equipment failure 6/18/13 2 0 0 70 500 Lightning 999 No Equipment failure 8/21/13 10 0 45 500 Lightning 999 No Equipment failure							
10/3/13 1 0 0 181 430 Tree failure from overhang or dead tree without ice/snow 999 No Equipment failure 4/17/13 4 94 5640 173 500 Lightning 999 No Equipment failure 4/17/13 1 0 0 98 500 Lightning 999 No Equipment failure 5/19/13 1 0 0 62 500 Lightning 999 No Equipment failure 6/17/13 1 0 0 739 500 Lightning 999 No Equipment failure 6/17/13 4 0 0 428 500 Lightning 999 No Equipment failure 6/18/13 2 0 0 70 500 Lightning 999 No Equipment failure 8/21/13 10 0 45 500 Lightning 999 No Equipment failure							
4/17/13 4 94 5640 173 500 Lightning 999 No Equipment failure 4/17/13 1 0 0 98 500 Lightning 999 No Equipment failure 5/19/13 1 0 0 62 500 Lightning 999 No Equipment failure 6/17/13 1 0 0 739 500 Lightning 999 No Equipment failure 6/17/13 4 0 0 428 500 Lightning 999 No Equipment failure 6/18/13 2 0 0 70 500 Lightning 999 No Equipment failure 8/21/13 10 0 0 45 500 Lightning 999 No Equipment failure				l.			
4/17/13 1 0 0 98 500 Lightning 999 No Equipment failure 5/19/13 1 0 0 62 500 Lightning 999 No Equipment failure 6/17/13 1 0 0 739 500 Lightning 999 No Equipment failure 6/17/13 4 0 0 428 500 Lightning 999 No Equipment failure 6/18/13 2 0 0 70 500 Lightning 999 No Equipment failure 8/21/13 10 0 0 45 500 Lightning 999 No Equipment failure	10/3/13	1					
1	4/17/13	4	94	5640	173	500 Lightning	
5/19/13 1 0 0 62 500 Lightning 999 No Equipment failure 6/17/13 1 0 0 739 500 Lightning 999 No Equipment failure 6/17/13 4 0 0 428 500 Lightning 999 No Equipment failure 6/18/13 2 0 0 70 500 Lightning 999 No Equipment failure 8/21/13 10 0 0 45 500 Lightning 999 No Equipment failure	4/17/13	1	0	0	98	500 Lightning	999 No Equipment failure
6/17/13 1 0 0 739 500 Lightning 999 No Equipment failure 6/17/13 4 0 0 428 500 Lightning 999 No Equipment failure 6/18/13 2 0 0 70 500 Lightning 999 No Equipment failure 8/21/13 10 0 45 500 Lightning 999 No Equipment failure			0	0	62		999 No Equipment failure
6/17/13 4 0 0 428 500 Lightning 999 No Equipment failure 6/18/13 2 0 0 70 500 Lightning 999 No Equipment failure 8/21/13 10 0 0 45 500 Lightning 999 No Equipment failure							
6/18/13 2 0 0 70 500 Lightning 999 No Equipment failure 8/21/13 10 0 0 45 500 Lightning 999 No Equipment failure				1			
8/21/13 10 0 0 45 500 Lightning 999 No Equipment failure				1			
424.20							
8/21/13 8 0 0 62 JournBurning Java no Edulprineur failure							
	8/21/13	8	<u> </u>		62	OU LIGHT NING	או כככן ואיז בעניין וויין איז פייין איז דייין דייי

						
PSC Reliability	Report for 2013					
						<u> </u>
Substation nam	ne - Reid Village Subst	ation				
Substation Num	nber - N64					
	Circuit 1 Sewell Shop					
	- Town - Reid Village	. Kv.				
	Grassy Lick/Thompso		-			
	gomery County, Ky					
	on - East Central Kentu	ichi				
						-
	ngth 51.92 miles					
	nt for this circuit - 497		h		-dhada	
Date of last Circ	cuit Trim - Full circuit	trim prior to 2009	but circuit has been to	rimmed on an as need	ed dasis	
Date (CAIDI	SAIDI	SAIFI			
2008	89	47				
2009	55	47				
2010	68	72	1.06			
2011	94	70	0.75			
2012	85	28			-	
2013	85	103	1.21			
5 yr average	78	53		245	467	
2 At average						· · ·
0.4-5-4-4-	CustomersAffected	Customorbours	In Minutes	Duration in Minutes	Cauca	Equipment/Material Failure
Outage date	CustomersArrected	Customernous	III IAMINGTE2	Duration in Minutes	Cause	Experience in account and the
			200	442	100 Construction	999 No Equipment failure
5/29/13	2	5	286	143		999 No Equipment failure
12/11/13	1	0	12	12	110 Maintenance	
12/14/13	1	1	59	59	340 Overload	999 No Equipment failure
12/8/13	2	7	390	195	400 Decay/Age of Material/Equipment	500 Transformer bad
4/22/13	1	23	1380	39	420 Tree Growth	999 No Equipment failure
8/28/13	7	0	0	190	420 Tree Growth	999 No Equipment failure
7/20/13	3	9	540	158	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
8/16/13	1	0	0	68	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
4/16/13	2	467	28020	117	500 Lightning	999 No Equipment failure
4/17/13	8	0	0	145	500 Lightning	999 No Equipment failure
4/17/13	4	0	0	160	500 Lightning	999 No Equipment failure
7/12/13	2	0	0	33	500 Lightning	999 No Equipment failure
8/3/13	225	0	0	113	500 Lightning	999 No Equipment failure
8/8/13	4	0	0 -	74	500 Lightning	999 No Equipment failure
		49	2960	592	510 Wind, Not Trees	999 No Equipment failure
12/22/13	5			70	600 Small Animal/Bird	999 No Equipment failure
4/11/13	2	12	720		600 Small Animal/Bird	999 No Equipment failure
5/6/13	2	0	0	114		999 No Equipment failure
7/31/13	2	0	0	169	600 Small Animal/Bird	
11/26/13	2	2	120	33	601 Squirrel	999 No Equipment failure
12/6/13	2	0	0	35	601 Squirrel	999 No Equipment failure
3/6/13	228	156	9348	41	710 Motor Vehicle	999 No Equipment failure
7/11/13	7	13	780	47	999 Cause Unknown	999 No Equipment failure
11/19/13	11	0	0	45	999 Cause Unknown	999 No Equipment failure
Total Minutes 44615				1 -	Percentage of outage duration	
,		T				
Correcti	ive action plan for Rei	d Village Substatio	n - Circuit 1 -	0.64%	100 Construction	
	Shop - Practice good p			0.03%	110 Maintenance	
lines as r	needed.		<u> </u>	0.13%	340 Overload	
	unes as needed.					
				0.B7%	400 Decay/Age of Material/Equipment	1

Reid Village Substation - Circuit 1 - Sewell Shop

3.09%	420 Tree Growth
1.21%	430 Tree failure from overhang or dead tree without ice/snow
62.80%	500 Ughtning
6.63%	510 Wind, Not Trees
1.61%	600 Small Animal/Bird
0.27%	601 Squirre!
20.95%	710 Motor Vehicle
1.75%	999 Cause Unknown

Reid Village Substation - Circuit 2 Downtown Reid Village

DCC Polishility	y Report for 2013					
r SC Reliabilit	y Report for 2013			· · · · · · · · · · · · · · · · · · ·		
Substation non	l	atlon				
Substation Nur		ation				
	Circuit 2- Reld Village					
						
	n - Town - Reid Village		4: -1-1			
	wn Reid Village/Hwy	50/The Maple Sub	division/ Prewitt Pike			
	gomery County, Ky_					
	on - East Central Kentu	icky				
	ngth 14.14 miles					<u>-</u>
	nt for this circuit - 404					
Date of last Cir	cuit Trim - Full circuit	trim prior to 2009	but circuit has been t	rimmed on an as need	ed basis	
Date	CAIDI	SAIDI	SAIFI		<u> </u>	
2008	67	3	0.04			
2009	25	27	1.09			
2010	111	64	0.58			
2011	71	22	0.31			
2012	57	27	0.47			
2013	130	70	0.54			
5 yr average	66	29	0.50			
Outage date	CustomersAffected	CustomerHours	In Minutes	Duration In Minutes	Cause	Equipment/Material Failure
5/21/13	8	252	15120	112	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/13/13	129	0	0	107	430 Tree failure from overhang or dead tree without Ice/snow	999 No Equipment failure
11/26/13	9	0	0	44	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/15/13	2	36	2160	66	500 Lightning	999 No Equipment failure
6/16/13	3	0	0	47	500 Lightning	999 No Equipment failure
6/27/13	15	0	0	112	500 Lightning	999 No Equipment failure
6/27/13	3	Ö	o o	121	500 Lightning	999 No Equipment failure
6/27/13	2	0	0	39	500 Lightning	999 No Equipment failure
6/27/13	1	0	0	47	500 Lightning	999 No Equipment failure
7/21/13	4	4	240	60	600 Small Animal/Bird	999 No Equipment failure
	35	163	9800	280	710 Motor Vehicle	999 No Equipment failure
12/19/13	33	103	3000	200	120 motor remote	pas no equipment tonore
	 	Total Minutes	27220		Percentage of outage duration	
Total Minutes 27320			2/320		reicentage of outage unfation	
Corrective action plan for Reid Village Substation - Circuit 2 -			n - Circuit 2 -	FF 240V	420 Tana fallors from averbang or dead trans without in farmer	
Downtown Reid Village/Prewitt Pike - Practice good preventive				55.34%	430 Tree failure from overhang or dead tree without ice/snow	
	nance and patrol lines			7.91%	500 Lightning	
Щ			Ī	0.88%	600 Small Animal/Bird	
				35.87%	710 Motor Vehicle	
	1	1	Ì	ı		

Sideview Substation - Circuit 3 Donaldson Road

						
PSC Reliability	y Report for 2013					
Substation nam	ne - Sideview Substati	on				
Substation Num						
	Circuit 3 Donaldson F	Road				
	- Town - Winchester					
	on Road/Grassy Lick		non Poad			
	Eastern Clark County			untu Vu		
			Vioritgoinery Co	unty, ky		
	n - East Central Kenti	јску				
	ngth 39.30 miles					
	t for this circuit - 424					
Date of last Circ	cuit Trim - 2013					
Date	CAIDI	SAIDI	SAIFI			
2008	122	71	0.58			
2009	50	31	0.62			
2010	150	30	0.2			
2011	89	73	0.82			<u> </u>
2012	70	60	0.86			
2013	122	156	1.28			
5 yr average	96	53	0.62			
3 yr average			0.00	411		
Outopo doto	CustomersAffected	CustomorHours	In Minutes	Duration in Minutes	Cause	Equipment/Material Failure
Outage date	CustomersArrected	Customerriours	in triniaces	Darocion in timetes		
2/5/82	2	3	180	54	300 Material or Equipment Fault/Failure	360 Fuse cutout (damaged, malfunction, maintenance)
2/6/13		0	0	82	300 Material or Equipment Fault/Failure	360 Fuse cutout (damaged, malfunction, maintenance)
4/19/13	1	1	44	44	340 Overload	999 No Equipment failure
1/21/13	1			39	400 Decay/Age of Material/Equipment	360 Fuse cutout (damaged, malfunction, maintenance)
1/18/13	1	559	33540			330 Jumper
4/25/13	268	0	0	125	400 Decay/Age of Material/Equipment	999 No Equipment failure
6/16/13	2	411	24660	36	430 Tree failure from overhang or dead tree without ice/snow	
6/19/13	2	0	0	79	430 Tree failure from overhang or dead tree without Ice/snow	999 No Equipment failure
7/18/13	191	0	0	172	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
11/30/13	3	0	0	_60	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
11/27/13	1	1	35	34	470 Borrower crew cuts tree	999 No Equipment failure
4/17/13	1	2	111	112	500 Lightning	999 No Equipment failure
4/8/13	3	24	1440	47	601 Squirrel	999 No Equipment failure
5/6/13	15	0	0	82	601 Squirrel	999 No Equipment failure
12/20/13	1	0	0	56	601 Squirrel	999 No Equipment failure
8/15/13	2	1	50	26	740 Public Cuts Tree	999 No Equipment failure
4/25/13	1	8	480	36	999 Cause Unknown	999 No Equipment failure
5/26/13	1	0	0	65	999 Cause Unknown	999 No Equipment failure
6/19/13	2	0	0	192	999 Cause Unknown	999 No Equipment failure
0/13/13	 	 	 			
		 	 			
<u> </u>	ļ		 			
	 	Total Minutes	60540	 	Percentage of outage duration	
<u> </u>	 	Total Wilnutes	00340		i erecinade di datage datation	
			 	0.30%	300 Material or Equipment Fault/Fallure	
I	·			U.3076	300 Material of Equipment Fault/Fanote	<u></u>

Sideview Substation - Circuit 3 Donaldson Road

Corrective action plan for Sideview Substation - Circuit 3 -	0.07%	340 Overioad
Donaldson Road Clark Energy is doing a systematic change outs	55.40%	400 Decay/Age of Material/Equipment
of porcelain cutouts on the Sidewiew substation after outage	40.73%	430 Tree failure from overhang or dead tree without Ice/snow
information showed this station to have had the most outages due to faulty cutouts. Eventually we will change out all old	0.06%	470 Borrower crew cuts tree
cutouts over a period of years. The ROW was cleared in 2013/14	0.18%	500 Lightning
turn 1	2.38%	601 Squirrel
	0.08%	740 Public Cuts Tree
	0.79%	999 Cause Unknown

Sideview Substation - Circuit 1- Pretty Run Road

	_	1	<u> </u>			
6.1.4.11	611 1 6 1 4 1					
	ne - Sideview 5ubstat	ion				
Substation Nur		<u> </u>				
Circuit Name - Circuit 1 Pretty Run Road						
	n - Town - Winchester		<u> </u>			
———	on Road/Big Stoner F		oad/Gay Evens	Road		
	Eastern Clark County	·				
	on - East Central Kent	ucky				
Total Circuit Le	ngth 93.27 miles					
	nt for this circuit - 579					
Date of last Cir	cuit Trim - 2013					
Date	CAIDI	SAIDI	SAIFI			
					· · · · · · · · · · · · · · · · · · ·	
2008	102	195	1.92			
2009	125	110	0.88	_		
2010	109	164	1.5			
2011	55		1.42			
2012	116	540	4.64	·		
2013	334	522	1.57			· · · · ·
5 yr average	101	217	2.07			
5 7. svaluge					· · · · · · · · · · · · · · · · · · ·	
Outage date	CustomersAffected	CustomerHours	In Minutes	Duration In Minutes	Cause	Equipment/Material Failure
o the go to to						Equipment/Waterior Fandre
7/30/13	6	9	522	87	300 Material or Equipment Fault/Failure	360 Fuse cutout (damaged, malfunction, maintenance)
3/11/13	7	16	960	81	320 Conductor Sag or Inadequate Clearance	999 No Equipment failure
3/11/13	7	0	0	57	320 Conductor 5ag or Inadequate Clearance	999 No Equipment failure
3/21/13	1	1	48	48	340 Overload	500 Transformer bad
1/26/13	32	79	4740	89	400 Decay/Age of Material/Equipment	330 Jumper
1/30/13	3	0	0	119	400 Decay/Age of Material/Equipment	330 Jumper
2/11/13	1	0	0	130	400 Decay/Age of Material/Equipment	300 Line conductor
9/11/13	5	0	0	54	400 Decay/Age of Material/Equipment	310 Connector or clamp
9/14/13	6	0	0	183	400 Decay/Age of Material/Equipment	300 Line conductor
4/6/13	3	28	1680	68	420 Tree Growth	999 No Equipment failure
4/30/13	1	0	0	49	420 Tree Growth	999 No Equipment failure
5/12/13	3	ō	0	94	420 Tree Growth	999 No Equipment failure
6/26/13	1	0	0	216	420 Tree Growth	999 No Equipment failure
7/21/13	6	0	0	71	420 Tree Growth	999 No Equipment failure
7/30/13	6	0	0	80	420 Tree Growth	999 No Equipment failure
3/16/13	7	3437	206220	165		<u> </u>
6/17/13	1	0	0	227	430 Tree failure from overhang or dead tree without ice/snow 430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure 999 No Equipment failure
	3	0	0			
6/26/13 6/27/13	1	0	0	73 629	430 Tree failure from overhang or dead tree without Ice/snow	999 No Equipment failure
7/10/13	13	0	0	118	430 Tree failure from overhang or dead tree without Ice/snow	999 No Equipment failure
		0	0		430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
7/10/13	3				430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
7/13/13	13	0	0	261	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
10/6/13	2	0	0		430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
12/22/13	480	0	0	415	430 Tree fallure from overhang or dead tree without ice/snow	999 No Equipment failure
7/23/13	15	59	3540	179	490 Maintenance, Other	300 Line conductor

Sideview Substation - Circuit 1- Pretty Run Road

8/13/13	2	0	0	165	490 Maintenance, Other	999 No Equipment failure
8/13/13	4	0	0	126	490 Maintenance, Other	999 No Equipment failure
4/17/13	1	63	3780	98	500 Lightning	999 No Equipment failure
4/17/13	7	0	0	55	500 Lightning	999 No Equipment failure
5/21/13	1	0	0	193	500 Lightning	999 No Equipment failure
5/22/13	3	0	0	108	500 Lightning	999 No Equipment failure
6/24/13	5	0	0	53	500 Lightning	999 No Equipment failure
6/26/13	3	0	Ö	184	500 Lightning	999 No Equipment failure
6/26/13	7	0	0	121	500 Lightning	999 No Equipment failure
6/27/13	1	0	0	152	500 Lightning	999 No Equipment failure
6/27/13	1	0	0	52	500 Lightning	999 No Equipment failure
6/27/13	1	0	0	54	500 Lightning	999 No Equipment failure
6/27/13	1	0	0	61	500 Lightning	999 No Equipment failure
6/29/13	2	0		164	500 Lightning	
7/21/13	12	0	0	41	500 Lightning	999 No Equipment failure 999 No Equipment failure
2/19/13	3	5	282	95	590 Weather, Other	
8/4/13	49	473	28380			999 No Equipment failure
9/27/13	1	0		571	600 Small Animal/8ird	999 No Equipment failure
12/31/13			0	57	600 Small Animal/Bird	999 No Equipment failure
	6	0	0	62	600 Small Animal/Bird	999 No Equipment failure
7/18/13	1	1	45	45	601 Squirrei	999 No Equipment failure
9/8/13	3	3	201	67	612 Animal/Large Bird	999 No Equipment failure
4/2/13	2	15	900	75	999 Cause Unknown	999 No Equipment failure
4/20/13	3	0	0	56	999 Cause Unknown	999 No Equipment failure
6/21/13	1	0	0	61	999 Cause Unknown	999 No Equipment failure
8/23/13	5	0	0	58	999 Cause Unknown	999 No Equipment failure
8/29/13	1	0	0	69	999 Cause Unknown	999 No Equipment failure
10/29/13	1	0	0	101	999 Cause Unknown	999 No Equipment failure
					Percentage of outage duration	
		Totai Minutes	251298		referrences of outage outation	
		Total Willutes	231296	0.21%	300 Material or Equipment Fault/Failure	
Corrective ac	tion plan for Sideview	Substation - Circu	uit 1 - Pretty	0.38%	320 Conductor Sag or Inadequate Clearance	
Run Road Cla	ark Energy is doing a s	ystematic change	outs of	0.02%	340 Overload	
porcelain cut	outs on the Sidewiew	substation after o	utage	1.89%		
information s	showed this station to	have had the mo:	st outages		400 Decay/Age of Material/Equipment	
	cutouts. Eventually w			0.67% 82.06%	420 Tree Growth	
	a period of years. RO\	N was cleared in o	alendar year		430 Tree failure from overhang or dead tree without ice/snow	
2013			-	1.41%	490 Maintenance, Other	
ll I			4	1.50%	500 Lightning	
				0.11%	590 Weather, Other	
				11.29%	600 Small Animal/8ird	
				0.02%	601 Squirrei	
				0.08%	612 Animal/Large Bird	
				0.36%	999 Cause Unknown	
i						<u></u>

Stanton Substation - Circuit 1 - Downtown Circuit

	- 16 - 2212		,			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
PSC Reliability	y Report for 2013					-
						<u> </u>
Substation nan	ne - Stanton					
Substation Nun	mber - E1					
Circuit Name -	Circuit 1 Downtown	Stanton				
Circuit Location	n - Town - Stanton, Ky			-		
	/Railroad Street/Hwy			<u>. </u>		
County - Powel						
	on - East Central Kentu	ıckı				
	ngth 7.20 miles	acky				+
	nt for this circuit - 600	_				
	cuit Trim - 2012					
Date of last Cir	cuit (rim - 2012					
						
Date	CAIDI	SAIDI	SAIFI		<u> </u>	<u> </u>
2008	49	24				
2009	41	45				
2010	166	33	0.2			
2011	67	22	0.32			
2012	- 68	31	0.46			
2013	67	43		602		
5 yr average	78	31				
	CustomersAffected		In Minutes	Duration in Minutes	Cause	Equipment/Material Failure
Outage dote	Costomerszarecteu	Costoniciiouis	··· in initiates	Duration in Innotes		Equipment Moterial Fanare
9/30/13	3	3	165	56	100 Construction	999 No Equipment failure
		4	240	18	110 Maintenance	
3/1/13	5					999 No Equipment failure
11/4/13	3	0	0	53	110 Maintenance	999 No Equipment failure
6/24/13	47	64	3854	82	400 Decay/Age of Material/Equipment	360 Fuse cutout (damaged, malfunction, maintenance)
2/11/13	18	602	36120	96	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/10/13	495	0	0		430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/10/13	18	0	0	112	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/11/13	4	0	0	56	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/21/13	2	9	540	46	490 Maintenance, Other	360 Fuse cutout (damaged, malfunction, maintenance)
8/19/13	7	0	0	50	490 Maintenance, Other	310 Connector or clamp
12/12/13	1	0	0	88	490 Maintenance, Other	360 Fuse cutout (damaged, malfunction, maintenance)
5/8/13	49	62	3724	76	500 Lightning	999 No Equipment failure
9/18/13	18	22	1320		600 5mall Animal/Bird	999 No Equipment failure
9/18/13	1	0	0	19	600 5mall Animal/Bird	999 No Equipment failure
10/4/13	5	0	0 -	46	600 Small Animal/Bird	999 No Equipment failure
8/9/13	1	6	360		601 Squirrel	999 No Equipment failure
12/22/13	10	- 0	0		601 Squirrel	999 No Equipment failure
14/44/13	10				OOJ JANIET	333 no Edokujent launte
 			Total Minutes		December of automation	
			Total Minutes		Percentage of outage duration	
	l		46323			
Corrective at	Corrective action plan for Stanton Substation - Circuit 1 - Downtown				100 Construction	<u> </u>
Stanton - Pra	Stanton - Practice good preventive maintenance and patrol lines a				110 Maintenance	<u> </u>
needed. Con	itinue to add animal g	uards when aroun	d equipment poles		400 Decay/Age of Material/Equipment	<u> </u>
and after out	and after outages.				430 Tree failure from overhang or dead tree without ice/snow	
<u> </u>				1.17%	490 Maintenance, Other	
				8.04%	500 Lightning	
					600 Small Animal/Bird	
					601 Squirrel	-
					<u>- 1, </u>	
L		L	1			·

Stanton Substation - Circuit 1 - Downtown Circuit

DCC Dallahille	. Dana - 1 fan 2012		r			
PSC Reliability	y Report for 2013					
Substation nam						
Substation Nun						<u> </u>
Circuit Name -	Circuit 1 Downtown :	Stanton				<u> </u>
Circuit Location	ı - Town - Stanton, Ky					
Road - Hwy 15/	Railroad Street/Hwy	15				
County - Powel	I County, Ky		i			
General locatio	on - East Central Kenti	ıcky				
	ngth 7.20 miles					
	t for this circuit - 600					
	cuit Trim - 2012					
Dute of last en	Cait IIIII 2022					
Date	CAIDI	SAIDI	SAIFI			
Date	CAIDI	JAID!	JAIRI		 	
						
2008	49	24				
2009	41	45				-
2010	166	33				
2011	67	22				
2012	68	31			<u></u>	
2013	67	43		602		<u> </u>
5 yr average	78	31	0.51			
Outage date	CustomersAffected	CustomerHours	In Minutes	Duration in Minutes	Cause	Equipment/Material Failure
9/30/13	3	3	165	56	100 Construction	999 No Equipment failure
3/1/13	5	4	240	18	110 Maintenance	999 No Equipment failure
11/4/13	3	0	0	53	110 Maintenance	999 No Equipment failure
6/24/13	47	64	3854	82	400 Decay/Age of Material/Equipment	360 Fuse cutout (damaged, malfunction, maintenance)
2/11/13	18	602	36120	96	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/10/13	495	0	0		430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/10/13	18	0	0		430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/11/13	4	0	0	56	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
	2	9	540		490 Maintenance, Other	360 Fuse cutout (damaged, malfunction, maintenance)
6/21/13					490 Maintenance, Other	310 Connector or clamp
8/19/13	7	0	0			
12/12/13	1	0	0		490 Maintenance, Other	360 Fuse cutout (damaged, malfunction, maintenance)
5/8/13	49	62	3724		500 Lightning	999 No Equipment failure
9/18/13	18	22	1320		600 Small Animal/Bird	999 No Equipment failure
9/18/13	1	0	0		600 Small Animal/Bird	999 No Equipment failure
10/4/13	5	0	00		600 Small Animal/Bird	999 No Equipment failure
8/9/13	1	6	360		601 Squirrel	999 No Equipment failure
12/22/13	10	0	0	31	601 Squirrel	999 No Equipment failure
			Total Minutes		Percentage of outage duration	
			46323			
Corrective	tion plan for Stanton	Substation - Circui	it 1 - Downtown	0.36%	100 Construction	
	Corrective action plan for Stanton Substation - Circuit 1 - Stanton - Practice good preventive maintenance and patr			0.52%	110 Maintenance	
	needed. Continue to add animal guards when around equi				400 Decay/Age of Material/Equipment	
and after out			deskureur boses		430 Tree failure from overhang or dead tree without ice/snow	
H					490 Maintenance, Other	
 -					500 Lightning	
					600 Small Animal/Bird	
 					601 Squirrel	
				U.7070	001 3quii ci	
						

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PSC Reliability	y Report for 2013	l		,		
	_		ļ			
Substation nam						
Substation Num]			,
Circuit Name -	Circuit 5 - Hwy 213 - 5	Spacer Cable				
Circuit Location	- Town - Stanton, Ky.					
Road - Hwy 213	/Hatchers Creek/Pair	nt Creek		-	· · · · · · · · · · · · · · · · · · ·	
County - Powell	County, Ky					
General location	n - East Central Kentu	icky			-	
Total Circuit Len	ngth 41.60 miles					
Customer count	t for this circuit - 801	•				
Date of last Circ	cuit Trim - 2012					· · · · · · · · · · · · · · · · · · ·
	-					· · · · · · · · · · · · · · · · · · ·
Date	CAIDI	SAIDI	SAIFI			· · · · · · · · · · · · · · · · · · ·
2008	61	9	0.15			<u> </u>
2009	51	16		· .		
2010	82	25				
2011	98	21				-
2011	68	33				
2012	76					<u>-</u>
—	76					
5 γr average		21	0.29			
l						
Outage date	CustomersAffected	CustomerHours	In Minutes	Duration in Minutes	Cause	Equipment/Material Failure
L						
11/19/13	9	10	·	0	100 Construction	999 No Equipment failure
10/21/13	3			29	100 Construction	999 No Equipment failure
12/4/13	1	5	300	56	110 Maintenance	999 No Equipment failure
5/23/13	7	0	0	9	110 Maintenance	999 No Equipment failure
5/13/13	4	0	0	33	110 Maintenance	999 No Equipment failure
2/4/13	3	0	0	14	110 Maintenance	310 Connector or clamp
11/28/13	7	3	168	24	340 Overload	999 No Equipment failure
12/25/13	2	11	660	111	400 Decay/Age of Material/Equipment	360 Fuse cutout (damaged, malfunction, maintenance)
11/24/13	2	0	0	90	400 Decay/Age of Material/Equipment	320 Splice or dead end
11/11/13	1	0	0	178	400 Decay/Age of Material/Equipment	390 Overhead line conductors and devices, distribution, other
10/14/13	1	0	0	51	400 Decay/Age of Material/Equipment	360 Fuse cutout (damaged, malfunction, maintenance)
8/9/13	7	253	15180	45	430 Tree failure from overhang or dead tree without Ice/snow	999 No Equipment failure
8/8/13	7	0	0		430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
7/27/13	6	0	0	104	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/10/13	1	0	0	54	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
5/21/13	64	0	0	218	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
12/8/13	5	14	820		440 Trees With Ice/5now	999 No Equipment failure
1/23/13	7	3	182		470 Borrower crew cuts tree	999 No Equipment failure
10/23/13	1	8			490 Maintenance, Other	350 Lightning arrester line
6/20/13	2	ō		142	490 Maintenance, Other	999 No Equipment failure
3/18/13	1	0			490 Maintenance, Other	350 Lightning arrester line
6/17/13	5	114	6840		500 Lightning	999 No Equipment failure
5/21/13	35	0			500 Lightning	999 No Equipment failure
3/18/13	33	0			500 Lightning	999 No Equipment failure
3/18/13				32	500 Lightning	
9/9/13		7.47	448			999 No Equipment failure
6/18/13	1	7.47			600 Small Animal/Bird	999 No Equipment failure
11/19/13		1			600 Small Animal/Bird	999 No Equipment failure
	1				601 Squirrel	999 No Equipment failure
6/4/13	1	0	0	58	601 Squirrel	999 No Equipment failure

Stanton Substation - Circuit 5 Hwy 213

11/4/13	709	725	43500	61	790 Public, Other	999 No Equipment failure
8/29/13	7		0	76	790 Public, Other	999 No Equipment failure
5/31/13	1		-	39		999 No Equipment failure
1,14,10						Joseph Carlotte
			Total Minutes			
			69266	0.87%	100 Construction	
				0.43%	110 Maintenance	
	T		i 1	0.24%	340 Overload	
	tion plan for Stanton S Street - Practice good			0.95%	400 Decay/Age of Material/Equipment	
lines as need		preventive mainte	mance and patrol	21.92%	430 Tree failure from overhang or dead tree without ice/snow	
lines as need	eu.			1.18%	440 Trees With Ice/Snow	
L				0.26%	470 Borrower crew cuts tree	
				0.69%	490 Maintenance, Other	
				9.88%	500 Lightning	
				0.65%	600 Small Animal/Bird	
				0.13%	601 Squirrel	
				62.80%	790 Public, Other	

Three Forks Substation - Circuit 3 - Three Forks Road

PSC Reliabilit	ty Report for 2013			3		
					· · ·	
Substation nar	me - Three Forks			-	<u> </u>	
Substation Nu		 	-	-		-
	- Circuit 3 Three Forks	<u> </u>	 	-		
				 		<u> </u>
	on - Town - Richmond,			<u> </u>		
Road - Three F	Forks Road/Brumfield	Subdivision				
	ison County, Ky		1			
General location	on - East Central Kent	uckv				
	ength 7.13 miles	I - '		 	· · · · · · · · · · · · · · · · · · ·	
	nt for this circuit - 53	 				
	rcuit Trim - 2011					
Date of last Cit	rcuit Irim - 2011	<u> </u>				
Date	CAIDI	SAIDI	SAIFI	L		
2008	60	66	1.11			
2009						· · · · · · · · · · · · · · · · · · ·
2010						
2011						
2012			_			
2013	51	111	2.1			
5 yr average	118	63	0.71			
_					*	
Outage date	CustomersAffected	CustomerHours	In Minutes	Duration In Minutes	Cause	Equipment/Material Failure
						Industrial Marcha Laurie
6/9/13	144	225	14100	104	100 Ton follow from a subserve to the	
	141	235	14100	101	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
C /0 = /0 3						
6/15/13	1	11	660	130	500 Lightning	520 Transformer arrester
7/21/13	10	0	0	130 54	500 Lightning 500 Lightning	
7/21/13 10/26/13	10	0	0 61	130 54	500 Lightning	520 Transformer arrester
7/21/13 10/26/13 11/8/13	10	0	0	130 54 61	500 Lightning 500 Lightning	520 Transformer arrester 999 No Equipment failure 999 No Equipment failure
7/21/13 10/26/13 11/8/13	10	0	0 61	130 54 61 77	500 Lightning 500 Lightning 600 Small Animal/Bird 601 Squirrel	520 Transformer arrester 999 No Equipment failure 999 No Equipment failure 999 No Equipment failure
7/21/13 10/26/13 11/8/13 4/8/13	10 1 4 9	0 1 13 0	0 61 780 0	130 54 61 77 52	500 Lightning 500 Lightning 600 Small Animal/Bird 601 Squirrel 601 Squirrel	520 Transformer arrester 999 No Equipment failure
7/21/13 10/26/13 11/8/13 4/8/13 9/16/13	10 1 4 9	0 1 13 0	0 61 780 0 88	130 54 61 77 52 88	500 Lightning 500 Lightning 600 Small Animal/Bird 601 Squirrel 601 Squirrel 710 Motor Vehicle	520 Transformer arrester 999 No Equipment failure
7/21/13 10/26/13 11/8/13 4/8/13 9/16/13 6/18/13	10 1 4 9 1 141	0 1 13 0 1 1 4	0 61 780 0 88 240	130 54 61 77 52 88 55	500 Lightning 500 Lightning 600 Small Animal/Bird 601 Squirrel 601 Squirrel 710 Motor Vehicle 999 Cause Unknown	520 Transformer arrester 999 No Equipment failure
7/21/13 10/26/13 11/8/13 4/8/13 9/16/13	10 1 4 9	0 1 13 0	0 61 780 0 88	130 54 61 77 52 88 55	500 Lightning 500 Lightning 600 Small Animal/Bird 601 Squirrel 601 Squirrel 710 Motor Vehicle	520 Transformer arrester 999 No Equipment failure
7/21/13 10/26/13 11/8/13 4/8/13 9/16/13 6/18/13	10 1 4 9 1 141	0 1 13 0 1 1 4	0 61 780 0 88 240	130 54 61 77 52 88 55 79	500 Lightning 500 Lightning 600 Small Animal/Bird 601 Squirrel 601 Squirrel 710 Motor Vehicle 999 Cause Unknown	520 Transformer arrester 999 No Equipment failure
7/21/13 10/26/13 11/8/13 4/8/13 9/16/13 6/18/13	10 1 4 9 1 141	0 1 13 0 1 1 4	0 61 780 0 88 240 0	130 54 61 77 52 88 55 79	500 Lightning 500 Lightning 600 Small Animal/Bird 601 Squirrel 601 Squirrel 710 Motor Vehicle 999 Cause Unknown	520 Transformer arrester 999 No Equipment failure
7/21/13 10/26/13 11/8/13 4/8/13 9/16/13 6/18/13	10 1 4 9 1 141	0 1 13 0 1 1 4	0 61 780 0 88 240	130 54 61 77 52 88 55 79	500 Lightning 500 Lightning 600 Small Animal/Bird 601 Squirrel 601 Squirrel 710 Motor Vehicle 999 Cause Unknown	520 Transformer arrester 999 No Equipment failure
7/21/13 10/26/13 11/8/13 4/8/13 9/16/13 6/18/13 9/30/13	10 1 4 9 1 141 1	0 1 13 0 1 1 4	0 61 780 0 88 240 0	130 54 61 77 52 88 55 79	500 Lightning 500 Lightning 600 Small Animal/Bird 601 Squirrel 601 Squirrel 710 Motor Vehicle 999 Cause Unknown 999 Cause Unknown Percentage of outage duration	520 Transformer arrester 999 No Equipment failure
7/21/13 10/26/13 11/8/13 4/8/13 9/16/13 6/18/13 9/30/13	10 1 4 9 1 141 1 ction plan for Three F	0 1 13 0 1 4 0	0 61 780 0 88 240 0 Total Minutes 15929	130 54 61 77 52 88 55 79	500 Lightning 500 Lightning 600 Small Animal/Bird 601 Squirrel 601 Squirrel 710 Motor Vehicle 999 Cause Unknown 999 Cause Unknown Percentage of outage duration 430 Tree failure from overhang or dead tree without ice/snow	520 Transformer arrester 999 No Equipment failure
7/21/13 10/26/13 11/8/13 4/8/13 9/16/13 6/18/13 9/30/13	10 1 4 9 1 141 1 1 ction plan for Three Field Subdivision- Prac	0 1 13 0 11 4 0 orks Substation - Titice good preventive	0 61 780 0 88 240 0 Total Minutes 15929 hree Forks	130 54 61 77 52 88 55 79 88.52% 4.14%	500 Lightning 500 Lightning 600 Small Animal/Bird 601 Squirrel 601 Squirrel 710 Motor Vehicle 999 Cause Unknown 999 Cause Unknown Percentage of outage duration 430 Tree failure from overhang or dead tree without ice/snow 500 Lightning	520 Transformer arrester 999 No Equipment failure
7/21/13 10/26/13 11/8/13 4/8/13 9/16/13 6/18/13 9/30/13	10 1 4 9 1 141 1 1 ction plan for Three Field Subdivision- Pracines as needed. One la	0 1 13 0 11 4 0 orks Substation - Titice good preventivinge outage pushed	0 61 780 0 88 240 0 Total Minutes 15929 hree Forks re maintenance this circuit over	130 54 61 77 52 88 55 79 88.52% 4.14% 0.38%	500 Lightning 500 Lightning 600 Small Animal/Bird 601 Squirrel 601 Squirrel 710 Motor Vehicle 999 Cause Unknown 999 Cause Unknown Percentage of outage duration 430 Tree failure from overhang or dead tree without ice/snow 500 Lightning 600 Small Animal/Bird	520 Transformer arrester 999 No Equipment failure
7/21/13 10/26/13 11/8/13 4/8/13 9/16/13 6/18/13 9/30/13	10 1 4 9 1 141 1 1 ction plan for Three Field Subdivision- Prac	0 1 13 0 11 4 0 orks Substation - Titice good preventivinge outage pushed	0 61 780 0 88 240 0 Total Minutes 15929 hree Forks re maintenance this circuit over	130 54 61 77 52 88 55 79 88.52% 4.14% 0.38% 4.90%	500 Lightning 500 Lightning 600 Small Animal/Bird 601 Squirrel 601 Squirrel 710 Motor Vehicle 999 Cause Unknown 999 Cause Unknown Percentage of outage duration 430 Tree failure from overhang or dead tree without ice/snow 500 Lightning 600 Small Animal/Bird 601 Squirrel	520 Transformer arrester 999 No Equipment failure
7/21/13 10/26/13 11/8/13 4/8/13 9/16/13 6/18/13 9/30/13	10 1 4 9 1 141 1 1 ction plan for Three Field Subdivision- Pracines as needed. One la	0 1 13 0 11 4 0 orks Substation - Titice good preventivinge outage pushed	0 61 780 0 88 240 0 Total Minutes 15929 hree Forks re maintenance this circuit over	130 54 61 77 52 88 55 79 88.52% 4.14% 0.38% 4.90% 0.55%	500 Lightning 500 Lightning 600 Small Animal/Bird 601 Squirrel 710 Motor Vehicle 999 Cause Unknown 999 Cause Unknown Percentage of outage duration 430 Tree failure from overhang or dead tree without ice/snow 500 Lightning 600 Small Animal/Bird 601 Squirrel 710 Motor Vehicle	520 Transformer arrester 999 No Equipment failure
7/21/13 10/26/13 11/8/13 4/8/13 9/16/13 6/18/13 9/30/13	10 1 4 9 1 141 1 1 ction plan for Three Field Subdivision- Pracines as needed. One la	0 1 13 0 11 4 0 orks Substation - Titice good preventivinge outage pushed	0 61 780 0 88 240 0 Total Minutes 15929 hree Forks re maintenance this circuit over	130 54 61 77 52 88 55 79 88.52% 4.14% 0.38% 4.90% 0.55%	500 Lightning 500 Lightning 600 Small Animal/Bird 601 Squirrel 601 Squirrel 710 Motor Vehicle 999 Cause Unknown 999 Cause Unknown Percentage of outage duration 430 Tree failure from overhang or dead tree without ice/snow 500 Lightning 600 Small Animal/Bird 601 Squirrel	520 Transformer arrester 999 No Equipment failure
7/21/13 10/26/13 11/8/13 4/8/13 9/16/13 6/18/13 9/30/13	10 1 4 9 1 141 1 1 ction plan for Three Field Subdivision- Pracines as needed. One la	0 1 13 0 11 4 0 orks Substation - Titice good preventivinge outage pushed	0 61 780 0 88 240 0 Total Minutes 15929 hree Forks re maintenance this circuit over	130 54 61 77 52 88 55 79 88.52% 4.14% 0.38% 4.90% 0.55%	500 Lightning 500 Lightning 600 Small Animal/Bird 601 Squirrel 710 Motor Vehicle 999 Cause Unknown 999 Cause Unknown Percentage of outage duration 430 Tree failure from overhang or dead tree without ice/snow 500 Lightning 600 Small Animal/Bird 601 Squirrel 710 Motor Vehicle	520 Transformer arrester 999 No Equipment failure
7/21/13 10/26/13 11/8/13 4/8/13 9/16/13 6/18/13 9/30/13 Corrective ad Road/Brumf	10 1 4 9 1 141 1 1 ction plan for Three Field Subdivision- Pracines as needed. One la	0 1 13 0 11 4 0 orks Substation - Titice good preventivinge outage pushed	0 61 780 0 88 240 0 Total Minutes 15929 hree Forks re maintenance this circuit over	130 54 61 77 52 88 55 79 88.52% 4.14% 0.38% 4.90% 0.55%	500 Lightning 500 Lightning 600 Small Animal/Bird 601 Squirrel 710 Motor Vehicle 999 Cause Unknown 999 Cause Unknown Percentage of outage duration 430 Tree failure from overhang or dead tree without ice/snow 500 Lightning 600 Small Animal/Bird 601 Squirrel 710 Motor Vehicle	520 Transformer arrester 999 No Equipment failure
7/21/13 10/26/13 11/8/13 4/8/13 9/16/13 6/18/13 9/30/13 Corrective ad Road/Brumf	10 1 4 9 1 141 1 1 ction plan for Three Field Subdivision- Pracines as needed. One la	0 1 13 0 11 4 0 orks Substation - Titice good preventivinge outage pushed	0 61 780 0 88 240 0 Total Minutes 15929 hree Forks re maintenance this circuit over	130 54 61 77 52 88 55 79 88.52% 4.14% 0.38% 4.90% 0.55%	500 Lightning 500 Lightning 600 Small Animal/Bird 601 Squirrel 710 Motor Vehicle 999 Cause Unknown 999 Cause Unknown Percentage of outage duration 430 Tree failure from overhang or dead tree without ice/snow 500 Lightning 600 Small Animal/Bird 601 Squirrel 710 Motor Vehicle	520 Transformer arrester 999 No Equipment failure
7/21/13 10/26/13 11/8/13 4/8/13 9/16/13 6/18/13 9/30/13	10 1 4 9 1 141 1 1 ction plan for Three Field Subdivision- Pracines as needed. One la	0 1 13 0 11 4 0 orks Substation - Titice good preventivinge outage pushed	0 61 780 0 88 240 0 Total Minutes 15929 hree Forks re maintenance this circuit over	130 54 61 77 52 88 55 79 88.52% 4.14% 0.38% 4.90% 0.55%	500 Lightning 500 Lightning 600 Small Animal/Bird 601 Squirrel 710 Motor Vehicle 999 Cause Unknown 999 Cause Unknown Percentage of outage duration 430 Tree failure from overhang or dead tree without ice/snow 500 Lightning 600 Small Animal/Bird 601 Squirrel 710 Motor Vehicle	520 Transformer arrester 999 No Equipment failure
7/21/13 10/26/13 11/8/13 4/8/13 9/16/13 6/18/13 9/30/13	10 1 4 9 1 141 1 1 ction plan for Three Field Subdivision- Pracines as needed. One la	0 1 13 0 11 4 0 orks Substation - Titice good preventivinge outage pushed	0 61 780 0 88 240 0 Total Minutes 15929 hree Forks re maintenance this circuit over	130 54 61 77 52 88 55 79 88.52% 4.14% 0.38% 4.90% 0.55%	500 Lightning 500 Lightning 600 Small Animal/Bird 601 Squirrel 710 Motor Vehicle 999 Cause Unknown 999 Cause Unknown Percentage of outage duration 430 Tree failure from overhang or dead tree without ice/snow 500 Lightning 600 Small Animal/Bird 601 Squirrel 710 Motor Vehicle	520 Transformer arrester 999 No Equipment failure
7/21/13 10/26/13 11/8/13 4/8/13 9/16/13 6/18/13 9/30/13	10 1 4 9 1 141 1 1 ction plan for Three Field Subdivision- Pracines as needed. One la	0 1 13 0 11 4 0 orks Substation - Titice good preventivinge outage pushed	0 61 780 0 88 240 0 Total Minutes 15929 hree Forks re maintenance this circuit over	130 54 61 77 52 88 55 79 88.52% 4.14% 0.38% 4.90% 0.55%	500 Lightning 500 Lightning 600 Small Animal/Bird 601 Squirrel 710 Motor Vehicle 999 Cause Unknown 999 Cause Unknown Percentage of outage duration 430 Tree failure from overhang or dead tree without ice/snow 500 Lightning 600 Small Animal/Bird 601 Squirrel 710 Motor Vehicle	520 Transformer arrester 999 No Equipment failure
7/21/13 10/26/13 11/8/13 4/8/13 9/16/13 6/18/13 9/30/13	10 1 4 9 1 141 1 1 ction plan for Three Field Subdivision- Pracines as needed. One la	0 1 13 0 11 4 0 orks Substation - Titice good preventivinge outage pushed	0 61 780 0 88 240 0 Total Minutes 15929 hree Forks re maintenance this circuit over	130 54 61 77 52 88 55 79 88.52% 4.14% 0.38% 4.90% 0.55%	500 Lightning 500 Lightning 600 Small Animal/Bird 601 Squirrel 710 Motor Vehicle 999 Cause Unknown 999 Cause Unknown Percentage of outage duration 430 Tree failure from overhang or dead tree without ice/snow 500 Lightning 600 Small Animal/Bird 601 Squirrel 710 Motor Vehicle	520 Transformer arrester 999 No Equipment failure
7/21/13 10/26/13 11/8/13 4/8/13 9/16/13 6/18/13 9/30/13	10 1 4 9 1 141 1 1 ction plan for Three Field Subdivision- Pracines as needed. One la	0 1 13 0 11 4 0 orks Substation - Titice good preventivinge outage pushed	0 61 780 0 88 240 0 Total Minutes 15929 hree Forks re maintenance this circuit over	130 54 61 77 52 88 55 79 88.52% 4.14% 0.38% 4.90% 0.55%	500 Lightning 500 Lightning 600 Small Animal/Bird 601 Squirrel 710 Motor Vehicle 999 Cause Unknown 999 Cause Unknown Percentage of outage duration 430 Tree failure from overhang or dead tree without ice/snow 500 Lightning 600 Small Animal/Bird 601 Squirrel 710 Motor Vehicle	520 Transformer arrester 999 No Equipment failure
7/21/13 10/26/13 11/8/13 4/8/13 9/16/13 6/18/13 9/30/13	10 1 4 9 1 141 1 1 ction plan for Three Field Subdivision- Pracines as needed. One la	0 1 13 0 11 4 0 orks Substation - Titice good preventivinge outage pushed	0 61 780 0 88 240 0 Total Minutes 15929 hree Forks re maintenance this circuit over	130 54 61 77 52 88 55 79 88.52% 4.14% 0.38% 4.90% 0.55%	500 Lightning 500 Lightning 600 Small Animal/Bird 601 Squirrel 710 Motor Vehicle 999 Cause Unknown 999 Cause Unknown Percentage of outage duration 430 Tree failure from overhang or dead tree without ice/snow 500 Lightning 600 Small Animal/Bird 601 Squirrel 710 Motor Vehicle	520 Transformer arrester 999 No Equipment failure

Trapp Substation - Circuit 1 - Trapp Goff Corner Road

					<u></u> -	
SC Reliability	Report for 2013					
Substation name	e - Trann					
Substation Num						
	Circuit 1 Trapp Goff C	omer Pead		-		
	- Town - Winchester,		L			
	off Comer Road/Will I	Rupard/Right Angl	e Road			
County - Clark Co	ounty, Ky					
Seneral location	n - East Central Kentu	cky				
Fotal Circuit Len	gth 25.87 miles			-		
Customer count	for this circuit - 221					
Date of last Circu						
Tate of last circle	un 11411 - 2023					
		CAIDI	SAIFI			-
Date C	CAIDI	SAIDI	SAIFI			-
						
2008	77	59				
2009	87	166				
2010	204	61	0.3			
2011	88	26				
2012	91	50				· · · · · · · · · · · · · · · · · · ·
2012	142	305				
	142	72				
5 yr average	109		0.77			
Outage date	CustomersAffected	CustomerHours	In Minutes	Duration In Minutes	Cause	Equipment/Material Fallure
2/14/13	1	23	1380	42	100 Construction	999 No Equipment failure
2/25/13	2	0	0	165	100 Construction	999 No Equipment failure
6/12/13	4		0	61	100 Construction	999 No Equipment failure
9/17/13	6	0	0	93	100 Construction	999 No Equipment failure
						999 No Equipment failure
10/17/13	2	0	0	84	100 Construction	
2/14/13	.3	17	1020	215	110 Maintenance	999 No Equipment failure
9/26/13	6	0	0	65	110 Maintenance	999 No Equipment failure
11/24/13	199	382	22940	210	400 Decay/Age of Material/Equipment	300 Line conductor
1/30/13	9	505	30300	55	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
4/12/13	4	0	0	108	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
6/16/13	40	0	0	150	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
8/12/13	66	0	ō	354	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
	6	6	372	62	600 Small Animal/Bird	999 No Equipment failure
8/27/13						999 No Equipment failure
6/5/13	13	21	1260	85	601 Squirrel	
6/18/13	1	0	0	S9	601 Squirrel	999 No Equipment failure
6/18/13	1	0	0	53	601 Squirrel	999 No Equipment failure
7/20/13	66	58	3498	52	999 Cause Unknown	999 No Equipment failure
			Total Minutes		Percentage of outage duration	
			60770		<u> </u>	
				2.27%	100 Construction	
	tion plan for Trapp St				110 Maintenance	
↓ Comer Road -	 Practice good preven 	ntive maintenance	e and patrol lines as	1.68%		-
needed. Add:	animal guards when	at equipment site:	s and after outages.	37.75%	400 Decay/Age of Material/Equipment	
.Ì				49.86%	430 Tree failure from overhang or dead tree without ice/snow	
i -				0.61%	600 Small Animal/Bird	
ai .		,	,	2.07%	601 Squirrel	
`i						
<u></u> F				5,76%	999 Cause Unknown	
				5.76%	999 Cause Unknown	

2008 77 55 0.77							
What shall be without 1 Traps Golf Corner Road	PSC Reliability	Report for 2013					
What shall be without 1 Traps Golf Corner Road							
Internation	Substation nam	e - Trapp					
Trick Location - Town - Windester, Fy.	Substation Num	nber - E90					
Trick Location - Town - Windester, Fy.	Circuit Name -	Circuit 1 Trapp Goff C	Omer Road				
The content of the							
County-Circle County, Ky				e Road			
Secretal Control Sect Performance						<u> </u>	
Description			icky		-		
Description Contraction			icky				
Detail California Califor			-				
April							
2008 77 5.9 0.77 156 1.91	Date of last Circ	curt I rim - 2011					
2008 77 5.9 0.77 156 1.91				0.4151			
2009 87 156 1.91 1.03	Date	CAIDI	SAIDI	SAIFI			
2009 87 156 1.91 1.03							<u> </u>
2010 204 61 0.3							<u></u>
2011 88 26 0.3	2009						
2012 91 50 0.55 2.16	2010	204					
2012 91 50 0.55 2.16		88	26	0.3			
2013 142 305 2.16					-		
Contract CustomersAffected CustomerHours In Minutes CustomersAffected CustomerHours In Minutes CustomersAffected CustomerHours In Minutes CustomersAffected CustomerHours In Minutes CustomersAffected CustomersAffected CustomerHours CustomersAffected C							
Dutage date CustomersAlfected CustomerHours In Minutes Duration in Minutes Cause Equipment/Material Failure 1/14/13							
1	3 yi average		,	0,77			
1							
1	<u> </u>	2	0	I- 842	Duration in Atlantas	Co	Fourinment/Material Failure
15	Outage date	CustomersAffected	CustomerHours	In Minutes	Duration in Minutes	cause	Equipment material randie
15							1000 No Faviament failure
1/2/13							
100 100	2/25/13						
100 101 102 103 103 104 105	6/12/13						
10,171/3	9/17/13	6	0	0	93		
10	10/17/13	2	0	0			
10	2/14/13	3	17	1020	215	110 Maintenance	
11/24/13 199 382 22940 210 400 Decay/Age of Material/Equipment 300 Line conductor 300 Line conduct	9/26/13	6	0	0	65	110 Maintenance	
10		199	382	22940	210	400 Decay/Age of Material/Equipment	300 Line conductor
				30300	55	430 Tree failure from overhang or dead tree without Ice/snow	999 No Equipment failure
Since Sinc				0	108	430 Tree failure from overhang or dead tree without ice/snow	999 No Equipment failure
Solution							
Signature Sign						•	
1260 85 601 Squirrel 999 No Equipment failure 6/18/13 1 0 0 0 59 601 Squirrel 999 No Equipment failure 6/18/13 1 0 0 0 53 601 Squirrel 999 No Equipment failure 6/18/13 1 0 0 0 53 601 Squirrel 999 No Equipment failure 6/18/13 1 0 0 0 53 601 Squirrel 999 No Equipment failure 6/18/13 66 58 3498 52 999 Cause Unknown 999 No Equipment failure 6/18/13 66 58 3498 52 999 Cause Unknown 999 No Equipment failure 6/18/13 66 6/18/13 6/18/							
1							
Solition							
7/20/13 66 58 3498 52 999 Cause Unknown 999 No Equipment failure Total Minutes Percentage of outage duration Corrective action plan for Trapp Substation - Circuit 1 - Trapp Goff Corner Road - Practice good preventive maintenance and patrol lines as needed. Add animal guards when at equipment sites and after outages. 1.68% 110 Maintenance 1.68% 120 Decay/Age of Material/Equipment 49.86% 430 Tree failure from overhang or dead tree without ice/snow 0.61% 600 Small Animal/Bird 2.07% 601 Squirrel							
Total Minutes Total Minutes Percentage of outage duration							
Corrective action plan for Trapp Substation - Circuit 1 - Trapp Goff Corner Road - Practice good preventive maintenance and patrol lines as needed. Add animal guards when at equipment sites and after outages. 1.68% 110 Maintenance 37.75% 400 Decay/Age of Material/Equipment 49.86% 430 Tree failure from overhang or dead tree without ice/snow 0.61% 600 Small Animal/Bird 2.07% 601 Squirrel	7/20/13	66	58	3498	52	1 September 1 Sept	222 NO Equipment familie
Corrective action plan for Trapp Substation - Circuit 1 - Trapp Goff Corner Road - Practice good preventive maintenance and patrol lines as needed. Add animal guards when at equipment sites and after outages. 1.68% 110 Maintenance 37.75% 400 Decay/Age of Material/Equipment 49.86% 430 Tree failure from overhang or dead tree without ice/snow 0.61% 600 Small Animal/Bird 2.07% 601 Squirrel							
Corrective action plan for Trapp Substation - Circuit 1 - Trapp Goff Corner Road - Practice good preventive maintenance and patrol lines as needed. Add animal guards when at equipment sites and after outages. 1.68% 110 Maintenance 400 Decay/Age of Material/Equipment 49.86% 430 Tree failure from overhang or dead tree without ice/snow 0.61% 600 Small Animal/Bird 2.07% 601 Squirrel			1			Percentage of outage duration	
Corner Road - Practice good preventive maintenance and patrol lines as needed. Add animal guards when at equipment sites and after outages. 1.68% 110 Maintenance 37.75% 400 Decay/Age of Material/Equipment 49.86% 430 Tree failure from overhang or dead tree without ice/snow 0.61% 600 Small Animal/Bird 2.07% 601 Squirrel			L	60770			
Corner Road - Practice good preventive maintenance and patrol lines as needed. Add animal guards when at equipment sites and after outages. 1.68% 110 Maintenance 400 Decay/Age of Material/Equipment 49.86% 430 Tree failure from overhang or dead tree without ice/snow 600 Small Animal/Bird 600 Small Animal/Bird 601 Squirrel	Corrective 3	ction plan for Trapp 5	ubstation - Circuit	1 - Trapp Goff		·	
needed. Add animal guards when at equipment sites and after outages. 49.86% 430 Tree failure from overhang or dead tree without ice/snow 0.61% 600 Small Animal/Bird 2.07% 601 Squirrel							
49.86% 430 Tree failure from overhang or dead tree without ice/snow 0.61% 600 Small Animal/Bird 2.07% 601 Squirrel	needed Add	l animal guards when	at equipment site	s and after outages.	37.75%	400 Decay/Age of Material/Equipment	<u></u>
0.61% 600 Small Animal/Bird 2.07% 601 Squirrel	I IICEGEO. AUG	, assessed Page 63 states				430 Tree failure from overhang or dead tree without ice/snow	
2.07% 601 Squirrel	H						
	H						
3.70% DECEMBER OF THE PROPERTY	F						<u> </u>
			 	 	3.70%	333 Couse Olimiotti	
	L	L	<u> </u>		<u> </u>	<u> </u>	